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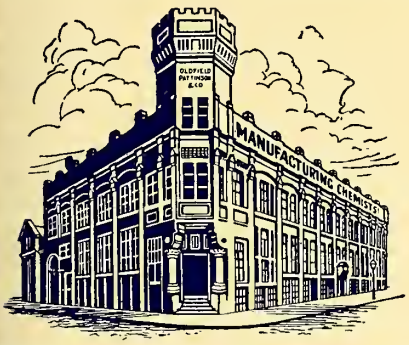

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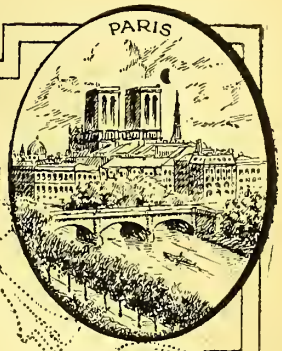

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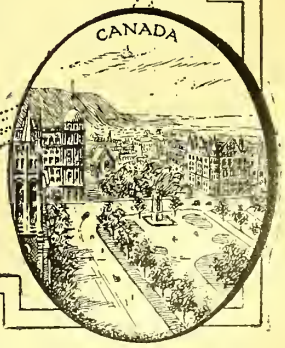
"Greeff, Cannon, London."
Telephone:
City 8600 (5 lines).

NEW YORK AGENTS:
R. W. GREEFF & CO., Inc.
78 FRONT STREET.



BUY ONLY "LIVE" PERFUMERY FOR CHRISTMAS

Lines that will be promptly recognised as good and dependable. The name De Luzy has already gained the public confidence. Doubled advertising from October onwards will make it even better known. De Luzy perfumes are dainty and dignified. Leakers are practically non-existent. De Luzy perfumes sell for 5/-, 5/6, 6/6, 14/6, 16/6 and 21/-

Write for Samples on approval, without obligation.

W. H. CALNAN & CO., 30-32 Ludgate Hill, LONDON, E.C. 4.

ROSE SUPRÊME DE FRANCE.

A New Perfume, designed to meet the requirements of Pharmacists preparing their own Powders, Creams and Toilet preparations in general.

Of fine quality and constant strength, it will be recognised by the trade to be the perfume of the year.

Prices & Samples from the Manufacturers—

R. LANE-HALL & CO., LTD.
1 STEWARD STREET,
LONDON, E.1.

"SEMPROLIA"

SNOW-WHITE PETROLEUM JELLY

¶ "Semprolia" is now being advertised in Magazines and Periodicals appealing to 8 million people.

¶ You are certain to be asked for "Semprolia." Do you carry it in stock? If not, it will pay you to place an order now.

¶ "Semprolia" is a P.A.T.A. article allowing *at least* 25% on sales.

¶ Showcards, Leaflets, etc., sent on request.

In Jars, Tubes and Sample Tins.

Send for Price List and Terms.

THE WM. BROWNING CO., LTD.
Albert Works, Park St., LONDON, N.W. 1

The House for Best Quality Liq. Paraffins, White Oils, etc.

"THE GENUINE" EAU DE COLOGNE.

The ORIGINAL and GENUINE Brand

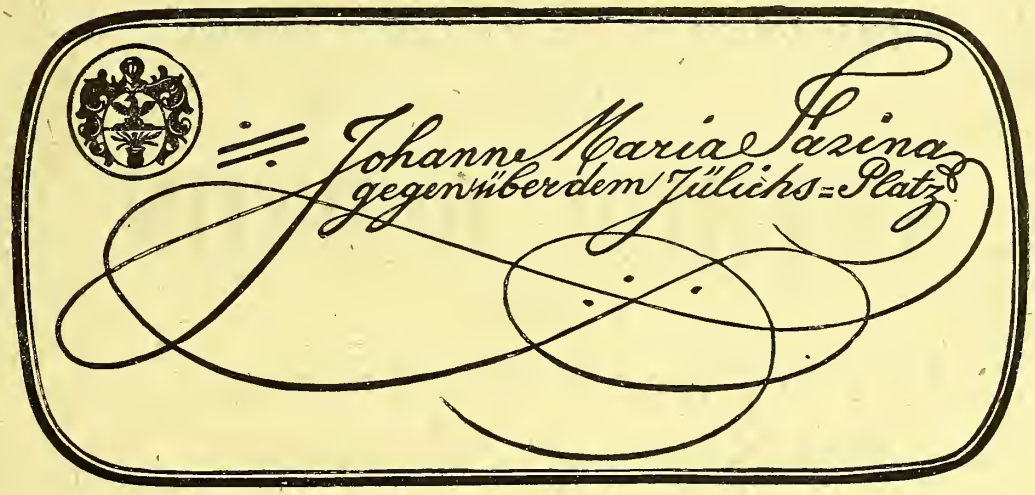
of

Johann Maria Farina,

Gegenüber dem Jülichs-Platz.

May now be obtained in London.

Highest Awards at International Exhibitions:
London, 1851 & 1862. Paris, 1855 & 1867
Grand Prize, Paris, 1900, etc.



The quality, guaranteed by this label, has always been known to the Trade as "the Genuine." It has never varied in the slightest degree since Eau de Cologne was invented over two centuries ago by the ancestor of the present maker. The genuine Eau de Cologne has always been made by the same family at the same address since the year 1709.

IT IS THE MOST WIDELY IMITATED ARTICLE IN THE WORLD.

Prices, Terms and all Particulars for Home or Export may be obtained from the sole distributors for the British Empire—

BLACKALLER & PLEASANCE,
8 LAURENCE POUNTNEY HILL, LONDON, E.C.4.

Duty paid stock of all sizes for immediate delivery, carriage paid.

From Sept. 20 to Sept. 30

WE
ARE HAVING A SPECIAL
DISPLAY OF

CHRISTMAS NOVELTIES

Inspection is respectfully invited
at the Showrooms of

ARTHUR BERTON

LIMITED

15 & 17 Worship St., London, E.C.2.
46a Market St., Manchester.
11 Miller St., Glasgow.

LONDON	-	*Telephone*	- Clerkenwell 1347, 8 & 9.
GLASGOW	-	,,	- Central 4300.
LONDON	-	*Telegrams*	- "Aybelim, Finsquare, London."
GLASGOW	-	,,	- "Aybelim, Glasgow."

Code: A B C, 5th Edition.

Maw's Page

September 11, 1920. No. 465.

Harvest at Christmas.

Harvest at Christmas sounds paradoxical enough, but the Pharmacist may reap a Golden Harvest this Christmas by planting now the seed of "Parex" Manicure Methods.

By popularising "Parex" Manicure Methods now the Pharmacist is familiarising the public with a series of goods particularly suitable for Christmas Gifts, and this alone is sufficient to produce Big Business at Christmas-time.

But more important still is the fact that this business will continue all the year round. The recipient of a "Parex" Manicure Outfit will become a regular customer because "Parex" quality ensures repeat orders, and remember these repeat orders must come to you, because "Parex" Manicure Methods are supplied only to Pharmacists.

Here are two outstanding lines of the series which will make ideal Christmas Gifts. Compare the margin of profit with competing lines and order your stock to-day.

The "Parex" Bijou Set.

A complete Manicure Outfit in miniature, tastefully packed in the distinctive "Parex" Manicure Series Colour Scheme.

		Fixed Retail Price,
Price	22/6 per dozen	
Not less than 1 dozen ...	21/6 „	2/6
„ „ 3 „ ...	20/9 „	
„ „ 6 „ ...	20/- „	

The "Parex" Standard Set.

A new and more comprehensive Outfit, packed in handsome veneer box. The already unprecedented demand is the surest indication of great sales for this line.

Price 84/- per dozen ... ... Fixed Retail Price 10/6

Telephone: "City 7" (Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.1.

Telegrams: "Eleven Cent, London."

COMBS

LADIES' DRESSING COMBS.

No.		Size	Per doz.
103	Black celluloid	7 × 1½ in.	6/6
101	White ,, ...	8 × 1¾ in.	8/-
112	Dove-coloured, non-inflammable	8 × 1½ in.	8/-
185	Black celluloid	8 × 1¾ in.	9/6
118	Black vulcanite	8 × 1⅝ in.	10/6
121	Black celluloid	7½ × 1¼ in.	13/-
116	Shell ,, ...	7½ × 1¼ in.	13/6
173	Black ,, ...	8 × 1½ in.	14/6
166	White ,, ...	7½ × 1½ in.	15/-
195	Black vulcanite	8 × 1¾ in.	15/-
168	White celluloid	7½ × 1¼ in.	18/-
204	Horn	8 × 1¾ in.	22/-
106	White celluloid	8 × 1¾ in.	24/-
188	Black ,, ...	8 × 1¾ in.	27/-

GENTS' COMBS.

165	Black celluloid	6½ × ⅞ in.	6/6
144	Black vulcanite	7 × 1 in.	7/6
143	Black ,, stout... ...	7 × 1 in.	8/6
203	Horn	7 × ⅞ in.	9/6

LADIES' RAKE COMBS.

No.		Size	Per doz.
167	White celluloid	6½ × 1¼ in.	12/6
119	Black ,, ...	8 × 1½ in.	13/-
190	Black ,, ...	8 × 1¾ in.	15/-
196	Black vulcanite	8 × 1¾ in.	15/-
206	Horn	7½ × 1½ in.	20/-
207	Horn	8 × 1½ in.	21/-
117	White celluloid	7½ × 1½ in.	21/-
115	White ,, ...	7½ × 1¾ in.	22/-
174	White ,, ...	8 × 1¾ in.	27/-
208	Horn, stout	8 × 1¾ in.	27/-

LADIES' HANDLE COMBS.

104	Black celluloid	8 × 1 in.	18/6
105	White ,, ...	8 × 1 in.	21/-

SMALL TOOTH COMBS.

174	White celluloid	3 × 1¾ in.	4/6
170	Horn	2¾ × 1¼ in.	7/-
192	Black vulcanite	3 × 1¾ in.	7/6
202	Black ,, stout ...	3½ × 2 in.	9/6

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for illustrated PRICE LIST, post free for the asking.

BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

Service.

Service is the driving force of business success. The success of our efforts is measured by the service we have rendered. In these competitive days good service is more than ever necessary in building up and maintaining a prosperous business concern. Our aim is to be of real service to our customers—to offer them the right goods at the right prices.

We invite Wholesale Buyers and Shippers to send us their inquiries and orders for COMBS, BRUSHES, MANICURE REQUISITES and DRUGGISTS SUNDRIES.

Our Service is at your disposal.

VERNON POWELL LTD.

COMB SPECIALISTS AND DRUGGISTS' SUNDRIESMEN

9 & 10 ST. ANDREW'S HILL, LONDON, E.C. 4.

TELEPHONE: CITY 3125.

BIDWELLS LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn (Assorted Patterns)	22/-	doz.
ditto Hard, White or Yellow	26/-	,,
ditto Ex. hard ,, ,,	30/-	,,
Mitre - - -	18/-	,,
Elephant - - -	16/-	,,
Anchor - - -	14/-	,,

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes, but our own make only.

A selected £12 parcel of Hair Brushes from 50/- to 150/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

London Office: 6 East India Avenue, E.C. 3.

ANNOUNCEMENT BY

THE MASTER BONE BRUSH MAKERS' ASSOCN.

(Representing all the Bone Tooth Brush Makers of repute in the country.)

¶ An advance in price of Tooth Brushes, dating from September 1, is rendered unavoidable by a considerable increase in rates of wages granted by the Trades Board, and taking effect from August 16. In addition to this, the cost of all materials has advanced consistently, bristle alone being over 100% higher than six months ago.

This revision in price does not meet the additional cost, and has been kept to the lowest possible limit to avoid disturbance of trade.

TOOTH BRUSH PRICES.

Best	4-Row	3-Row
Assorted	22/- doz. ...	18/- doz.
Hard White or Yellow ...	26/- ,, ...	22/- ,,
Special Patterns	24/- ,, ...	20/- ,,
Ex. Hard White or Yellow	30/- ,, ...	26/- ,,

Children's, 12/6 doz. Tom Thumb, 9/- doz.

5-Row, 30/- doz.
Perforated, 3 and 4-Row, 1/- doz. extra.
Children's, 6d. doz. extra.
Lower Qualities from 12/- per doz. upwards.
Dental Plate, Ex. Hard, 30/- doz.

Here's a saving!

BETTER Corks for less money. How?

Modern methods—scientific management — shrewd and long-sighted purchasing—brains—these are the things that make the saving possible.

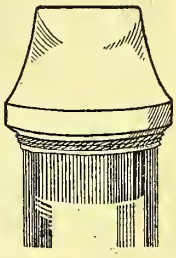
It's easily proved. Put in a trial order. If not satisfied, say so, and get your money back. That's fair business, don't you think so?

Corks with a guarantee are identified by this sign only.

N. W. MITCHELL & SONS, Ltd.
"THE CORK FIRM,"
Limehouse, London, E.14.

Immediate Delivery

GATES' BOTTLE CAPPING SKINS



SNOW-WHITE OPAQUE ROLLED SKINS

These Skins are damp and READY FOR USE. They are used by all the leading Perfumery and Drug Houses. ABSOLUTELY AS OPAQUE AS SPLIT SKINS and equal in appearance. Also

WHITE, OPAQUE & TRANSPARENT BAUDRUCHE

"Sole Pioneer" and only English Manufacturer

Gold-Beaters' Skin

LESLIE GATES
HAILSHAM, SUSSEX
Telephones, 53 and 3.

Another New Speciality.—Try my TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.

'ZITA' ANTISEPTIC ABSORBENT DUSTING POWDER

THIS WORD 'ZITA' stands for
ZINC OLEATE
INFUSORIAL EARTHS
TALCUM
ACID BORICUM ANTISEPT

This Powder brings Reputation Rapid Sales & Rapturous delight to it's users.

Distinct from any other Baby Dusting Powder.

An Ornament to any Chemist's Counter.

for terms apply to
ANGLO-AMERICAN PHARMACEUTICAL COMPANY LTD,
Galen Works, 59, Dingwall Road,
EAST CROYDON, (LONDON.)

THE "DAILY MAIL" SAID INTERESTING THINGS ABOUT the prevalence and cause of grey hair among our young folk, and we have produced a strikingly attractive, business-pulling poster. This, with the continuous, never-ceasing Press Publicity, and strong local show material, makes "Quin-Quenna" *the certain selling line that it is.*

LET US SEND YOU IMMEDIATELY
a poster along with 2 cartons each 6 dozen with **2 dozen free as bonus,** and other advertising aids. *It will come carriage paid.* P.A.T.A. 6d. per packet. Note the profit on selling price!

4/- Per Doz. **Quin-Quenna** BETTER THAN A SHAMPOO 43%

THOS. CHRISTY & CO., 4/12 Old Swan Lane, E.C. 4.

LOTOZONE

SHAMPOO DE LUXE

A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The Shampoo Salesman, free on application, gives full details of prices and profit.

Full particulars on request.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1.

AYRTON'S WEEKLY PAGE 15

Don't Hesitate!

Take advantage of our special offer to send the purchaser of Ayrton's Cocoanut Oil Shampoo direct to your pharmacy.

Send your order to-day for one dozen, either to your regular wholesaler or direct to us.

You will receive blank forms for the names and addresses of fifty of your customers to whom we will send a letter and testimonial circular, telling them about Ayrton's Cocoanut Oil Shampoo, also that it may be obtained at your pharmacy.

With your order we will send you a good supply of advertising material, including showcard, testimonial cards, and window poster.

If you use your local Cinema for advertising, write to us for particulars of Lantern Slide for Ayrton's Cocoanut Oil Shampoo.

Sales are made easy if you make use of Ayrton's Publicity Service.

Ayrton's Cocoanut Oil Shampoo is packed in 4-oz. bottles with sprinkler top, and is attractively labelled and cartoned.

Retail, P.A.T.A. ... ... per bottle **2/3**
Wholesale ... ... per dozen **16/6**

£5 orders Carriage Paid.

There is no secret about Ayrton's Cocoanut Oil Shampoo

British and Best!

THIS OFFER WILL BE WITHDRAWN ON SEPTEMBER 30.

AYRTON, SAUNDERS & CO., LTD

Manufacturing Chemists LIVERPOOL

PASTILLE POINTS—1.

The FINISH of

EMULSION ANTISEPTIC THROAT PASTILLES

(KERFOOT)

BEAUTY may be "only skin deep," but it's the part that's seen—as a famous coiner of epigrams once observed.

And it's the same with the stock in your Pharmacy. A superb finish may add nothing to medicinal worth, but it does create confidence in your customers.

Our Emulsion Throat Pastilles (Kerfoot), for instance, have a finish which conjures up visions of the highly polished lustre of good coachwork, and pastilles so finished cannot fail to impress the purchaser with the quality, both of the medicament itself and of the Pharmacy that supplied it.

Emulsion Throat Pastilles (Kerfoot) are already known to a wide circle of Pharmacists. To such this series of announcements is not addressed. But to the Pharmacist who has had no experience of our pastilles we would say—test their merits for yourself. Try a small sample—say, 7 lb., and when you have proved in your own Pharmacy the truth of our claims then order in such quantities as your business demands.

The price of Emulsion Antiseptic Throat Pastilles (Kerfoot) is 3/3 per lb. :: :: They are also supplied in pocket tins.

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

The Package.

Strong hinged-lid box wrapped in Seidlitz Blue Paper.

The Candy.

An old-fashioned counter-adjunct with an up-to-date margin of profit.

The Showcard.

A PACKAGE that revives memories of the Pharmacies of long ago, filled with delicious irregular lumps of reddish-brown candy—so pleasant to the taste that one is apt to forget its remedial value and treat it as a sweetmeat pure and simple.

Old English Digestive Candy is, however, much more than that, for it combines the pleasantness of a sugar confection with the efficacy to be expected from a recipe containing Magnesia, Rhubarb, Bismuth, Soda and Ginger. Price 10/6 per dozen boxes (retailing at 1/6). Also sold in bulk, price 2/6 lb.

THOMAS KERFOOT & Co. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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Odclon

Telegrams:
"Odclon, Edge, London."
Telephone:
Paddington 3333.

is

GENUINE EAU DE COLOGNE

Distilled in London from

ORIGINAL FORMULA

of

Johann Maria Farina
BORN 1685

Acquired by a BRITISH OFFICER whilst serving in Cologne.

Guaranteed "DOUBLE" Eau de Cologne and up to pre-war standard.

If our Representative has not yet called on you, apply direct.
AGENTS WANTED.

Odclon, Ltd.
(A Syndicate of ex-Officers).

43 Edgware Road, London - - W.2.

British Proprietors of Johann Maria F. Farina, St. Joseph, 1648, Original

DODGE & OLCOTT CO.,

20 MARK LANE, LONDON, E.C.3.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu,
TONKA BEANS, Angosturas.

Phone—
CITY 2468.

Telegrams—
"EGDARF, FEN, LONDON."

CHLOROPHYLL

FAST TO LIGHT —— ABSOLUTELY PURE

Telegrams—"SANDOZ BRADFORD."
Telephone—BRADFORD 1302.

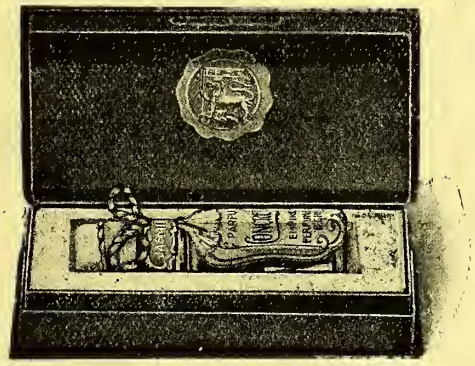
THE SANDOZ CHEMICAL CO., Ltd.
BRADFORD.

NOW IS THE TIME TO ORDER

THE EMPIRE

CONCRETE PERFUMES

These represent the latest efforts of the Perfumer Chemist. They are made without alcohol, being the essential principles of the flowers freed from wax, etc. One drop is sufficient to perfume the handkerchief for days. Made in twenty odours, including Cologne and Lavender.



E 202, **21/6** per doz.

E 203, **25/6** per doz.

E 204, **12/6** doz.

ONE-DROP PERFUMES.

E 204

These are not so concentrated as the above, but are free from alcohol and exceedingly good value.

Made in twenty odours, including Cologne and Lavender.

All are packed in rod-stoppered bottles.

THE EMPIRE PERFUMERY CO., OLDBURY, ENGLAND

(CUXSON, GERRARD & CO., LTD., Proprietors)

EXPORT & COLONIAL INQUIRIES INVITED.

TERPENELESS OILS
BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniperberry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC ALDEHYDE
GERANIOL
CITRAL
EUCALYPTOL

SICILIAN
LEMON - BERGAMOT
ORANGE - MANDARINE.

SPINELLI

The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E.1.

A B C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: Hop 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

PEPPERMINT OIL
(NEW CROP)

"FLOR MINT"
BRAND.

Distilled by LOUIS RAISSAC

Proprietor of the

Montagne Noire

Plantations and Distilleries at

Revel & Toulouse,
FRANCE.

Sole Agent for the U.K.:

C. A. CHARPENTIER,
75 Great Titchfield Street, LONDON, W.1.

Telephone: Museum 6412.

Telegrams: "Synthetoli, Wesdo, London."

INSECT FLOWERS
(*Japanese Best Quality*).

1919 Crop was only 50 % of that of 1918, and present prices are 400 % higher than 1918. 1920 crop to be harvested May-June is estimated 20 % below that of 1919. If demand continues as at present, the present unprecedently high price will be exceeded.

We have shipped hundreds of tons with unanimous satisfaction to our customers.

Cable us your inquiries.

We are an all British-American firm, specialising in business that ensures satisfaction.

The Mutual Traders,
24 Nakayamate-dori, 2 chome,
KOBE, JAPAN.

Cable Address—"Simsland." [7]

Have you tried

PREEMO

Concentrated Essences Floral Ottos AND Compounds

The famous Preemo Concentrated Essences, Floral Ottos and Compounds are known and used in the largest and most progressive Hairdressing and Perfumery Establishments throughout the World. They are recognised as the finest obtainable and the simplest to use. Distilled from the sweetest flowers of Southern France they are absolutely unsurpassed for strength, purity and lasting charm of odour.

They are perfectly soluble in water, spirit and oil, and being highly concentrated, very little need be used at a time. You have only to compare the Preemo Products with ordinary Concentrated Essences, etc., to appreciate the immense Superiority of the Preemo Lines. This Superiority is largely due to the fact that Preemo Essences are specially made for Toilet Preparation Manufacture.

SEND FOR FREE SAMPLES

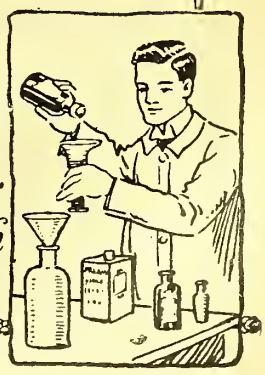
We gladly and promptly respond to all bona-fide inquiries.

THE PREEMO CONCENTRE AND ESSENTIAL OIL CO.

63 High Holborn, LONDON, W.C.1.
Telephone: HOLBORN 3095.

32 Rue de Montenotte, PARIS
Tel.: WAGRAM 27-35.

Its so easy to make your Own Toilet Preparations with Preemo Products



"HEADQUARTERS"

SPANISH ESSENTIAL OILS

LARGE STOCKS

RIGHT PRICES

EVERY KIND.
PRICE LIST GLADLY SENT ON APPLICATION.

LONABARC TRADING CO., LTD.
5 FINSBURY SQUARE, LONDON, E.C. 2.
Telegrams: "Lonabarc, Finsquare, London." Telephone: Clerkenwell 2096.

NESTOR MOURANCHON.

Offices: 40 Rue Damremont, PARIS. Telegrams: "Barthgay Paris." Telephone: Marcadet 15/92.
Distilleries and Laboratories: Chateauneuf-Val-St.-Donat (nr. Grasse), and Romans (Drôme).

SPECIALITIES: Menthes, Neroli, Petitgrain, Patchouli, Otto of Rose, Violet Essence, Gant de Saxe.
"ESSENCES DE MONTAGNE" and Imported Products.
Lavender, Aspic, Thyme, Girofle, Badiane, Geranium, Ylang Ylang, Musk, Ambre.

PRICE LIST ON APPLICATION TO WHOLESALERS ONLY.

Sole Agents for British Isles and Colonies:—

A. BREZET & CO. LIMITED,
19 ST. DUNSTAN'S HILL, LONDON, E.C. 3.
Telephone: Avenue 3543. Telegrams: "Abrezical, Phone, London."

The Great Plus

BUSINESS THAT IS WORTH WHILE

TO INTRODUCE

CREME FIAMETTE

TO THE TRADE

It is our pleasure and privilege to introduce Creme Fiamette to the Trade before we introduce it to the Great British Public through the million-voiced press.

A SOUND PROPOSITION OFFERING

50% PROFIT ON RETURNS

Our window display offer, here submitted to your approval, it will be noticed, bases the profit percentage on returns, special attention is directed to these

Window Display Offers.

No. 1.	£	s.	d.
3 doz. Creme Fiamette at 12/- (Free bonus ½ doz.)	1	16	0
Less cash payment for display		10	0
Net cash outlay	1	6	0
RETURNS:			
3½ doz. Creme Fiamette, 1/3 each	2	12	6
Less cost	1	6	0
50% net profit on returns.	1	6	6

No. 2.	£	s.	d.
6 doz. Creme Fiamette at 12/- (Free bonus 1 doz.)	3	12	0
Less cash payment for display	1	0	0
Net cash outlay	2	12	0
RETURNS:			
7 doz. Creme Fiamette at 1/3	5	5	0
Less cost	2	12	0
50% net profit on returns.	2	13	0

No. 3.	£	s.	d.
1 gross Creme Fiamette at 12/- (Free bonus 2 dozen.)	7	4	0
Less cash payment for display	2	0	0
	5	4	0
RETURNS:			
14 dozen Creme Fiamette at 1/3 each	10	10	0
Less cost	5	4	0
50% net profit on returns.	5	6	0

CASH PAYMENT FOR WINDOW SPACE

Let us pay for your Window Space.

WRITE:—

London, 11, Southampton Row, W.C.

Apeco Ltd

Paris IXe Rue Taitbout

LONDON & PARIS.

WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,

FULWOOD HOUSE, HIGH HOLBORN, W.C. 1

	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.

	Per doz.
1/6 Duvetine (Superfluous Hair Remover) ...	9/-
1/6 Wavcurl Hair Tonic (9 in Powdered Form)	9/-
1/6 Eyelashine	9/-
Showcards for Window / Dummies for Show	no charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

BE SURE AND ADD

La-Rola

Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber

supplied as usual,

All these articles are protected at FACE VALUE. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

LOVELY EYELASHES

(A BRITISH SCIENTIFIC TRIUMPH)

South Africa: ASHKANAZY, LTD. *Johannesburg.*

P.A.T.A. 1/-, 1/9 & 3/6

EXTENSIVELY ADVERTISED

Colourless, harmless eyelash food. Beneficial to the eyes.

25 % on small orders, 33⅓ % on Gross Lots.

CURLASH CREAM

For a small show in your window:

OUR WINDOW-SHOW OFFER		
3 Doz. @ 1/-	£1 16 0	
9 Free	3 0	
Returns	£2 5 0	
Outlay	£1 7 0	
NET PROFIT 66⅔%		18 0

With Dummies and Showcards. Carriage paid.

THE BALDWIN MFG. CO., Ltd., 37 Berners St., London, W. 1.

STRODONIA Vanishing Cream.

NOW SUPPLIED IN

ALUMINIUM SCREW-CAPPED JARS.

10½d. size—7/6 doz. 1/3 size—10/6 doz.

FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10/0 subject to ½-doz. 1/3 size Bonus for window display, net.; £1/10/0 subject to ¼-doz. 1/3 size Bonus for window display, net. Carriage paid on £1/10/0 upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

SEPTEMBER BONUS TERMS.

SILKODONO for the HAIR & SCALP

To show our appreciation of the enthusiastic way in which "Silkodono" has been taken up by the Trade, we have decided during September to accept orders from Chemists on the following attractive terms:—

1 doz. 2/6 size ... £1 0 0
Bonus ... One Extra Bottle
This gives you a profit of over 60%

1 doz. 4/6 size ... £1 16 0
Bonus ... One Extra Bottle
This gives you a profit of over 60%

3 doz. 2/6 size ... £3 0 0
Bonus ... Six Extra Bottles
This gives you a profit of 75 %

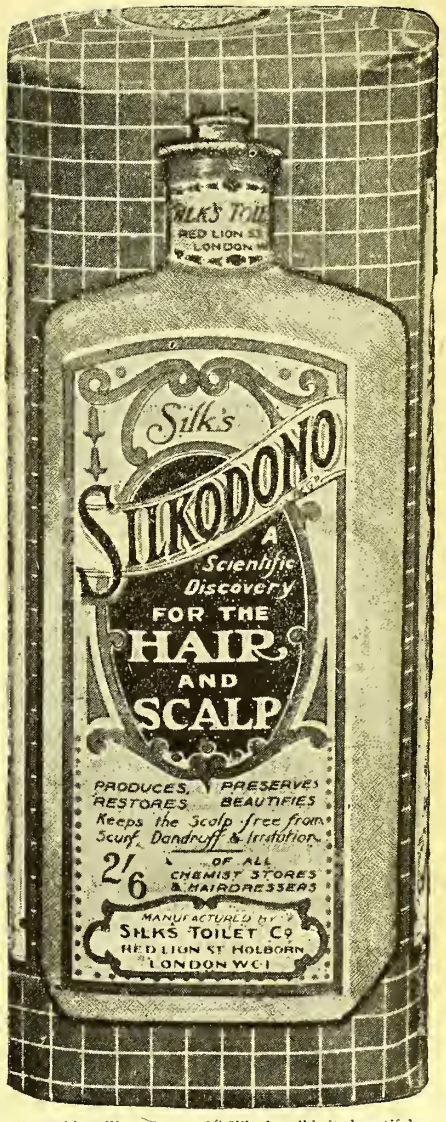
3 doz. 4/6 size ... £5 8 0
Bonus ... Six Extra Bottles
This gives you a profit of 75 %

This September offer will give to those who, for one reason or other, were unable or too late to benefit by our introductory terms, an opportunity of taking up "Silkodono" on a highly profitable basis. At the same time it is a concession which we feel sure will be very acceptable to those who are now sending us repeat orders. The sales of "Silkodono" are going up with leaps and bounds. Both Trade and Public have been quick to recognise in this splendid New Hair Remedy qualities which place it in the very front rank of hair preparations.

Demand for "Silkodono" is being stimulated by a powerful publicity campaign which is supplemented by beautiful showcards, useful Booklets on "Silkodono" Hair Culture, and Dummy Cartons which are supplied free of charge to all stockists.

This advertising will be continuous, and the call for "Silkodono" will therefore keep growing and growing. It is a preparation of real merit, and it may truthfully be said that one bottle of "Silkodono" sells another. It accomplishes everything that we claim for it. It is an article that will add to your reputation for reliability and good value.

Wholesale Prices:
2/6 size Silkodono **20/-** per dozen.
4/6 size Silkodono **36/-** per dozen.



A notable selling feature of "Silkodono" is its beautiful wrapper, which is attractively printed in six colours, the original bottle and label being reproduced in actual colours. It is quite distinctive, and when shown in window or counter display will give a wonderfully striking effect.

Manufacturers—SILKS TOILET CO., Red Lion St., LONDON, W.C. 1.

Telephone: Holborn 3095. Telegrams: "Silporanob, Holb, London."

A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C. 4.

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

2/- size. No. 45		1/3 size. No. 495	
1 doz. -	16/- per doz.	1 doz. -	11/- per doz.
6 „ -	15/9 „	6 „ -	10/9 „ „
12 „ -	15/6 „	12 „ -	10/6 „ „

The P.A.T.A prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920. *No. 495 supplied in the United Kingdom only.*

To Satisfy your Customers Is to Increase your Business

LINARIS TOILET PREPARATIONS

(1) Give absolute satisfaction–Guaranteed
(2) Are prepared from the finest Drugs obtainable.
(3) Show splendid profits to the Retailer.
(4) Invariably bring repeat orders.
(5) Are beautifully packed in Opal-topped Jars and large golden boxes tied with purple ribbon. Make a splendid counter show.

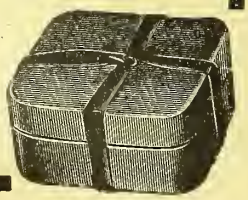
LINARIS Vanishing Cream
LINARIS Bath Powder
LINARIS Henna Shampoo Powder
LINARIS Camomile Shampoo Powder
LINARIS Massage Cream
LINARIS Tonic Cream
LINARIS Beauty Cream
LINARIS Face Powders

Profit of over **33⅓%**

Send direct to

LINARIS TOILET PREPARATIONS (Dept. X)
31 Westbourne Grove, London, W.2

Carriage paid on all orders over £5



FOR LARGE BUYERS.

TOILET PARAFFINS

ALSO

Lime Creams, Shaving Sticks, Tooth Powders, Dental Creams, Vanishing Creams, Shampoo Powders, Pomade Hongroise, Brilliantines, Dry Shampoo (Liquid), Bay Rhums, and all Toilet Goods.

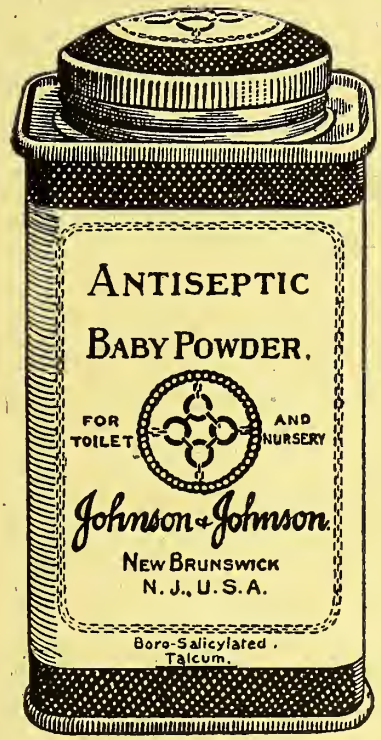
LOW PRICES for HIGH QUALITY.

C. A. STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,

11 ECLIPSOL WORKS, BRISTOL.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON
British - Manufacture.

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd.
104 Golden Lane - - E.C. 1.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive prespiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

GIVE it a good show and it sells itself. There is nothing just like it. The excellence of the product and the practicability of the box make customers for you.

Shows you 33⅓ % on selling price.

POUDRE NILDÉ

in the Sifter Box.

Appeals irresistibly to every woman. The quickest selling line of face powder ever shown.

MINIMUM SELLING PRICES:

POUDRE NILDÉ
in the Sifter Box.

Handbag size	1/-
Medium size	2/-
Large size	3/6
Leather or fancy silk vanity cases, with mirror, small size	5/-
Large size	10/-

Shades:
Blanche, Rachel, Naturelle, Rosée, Basanée.

ROUGE INVISIBLE NILDÉ
in the Sifter Box.

Small size	1/6
In leather case	5/6

Tints:
Brune & Blonde

THROUGH YOUR WHOLESALE HOUSE.

EACH BOX CONTAINS A PUFF

NILDÉ, Paris

British and Colonial Agents:
8 BLENHEIM ST., LONDON, W.1

MALACEÏNE

MALACEÏNE PRODUCTS

Manufactured by

"PARFUMERIE MONPELAS"

PARIS.

On the P.A.T.A.

No.		Wholesale Price Per Doz.	Minimum Retailing Price Each.
62	Crème Malaceïne, Small size - -	21/-	2/6
63	,, ,, Medium size- -	42/-	5/-
64	,, ,, Large ,, - -	66/-	7/6
67	Poudre Malaceïne - - - -	34/-	4/-
71	Malaceïne Toilet Soap - - -	31/-	3/6
78	,, Shaving Soap - - -	31/-	3/6

SHOWCARDS SUPPLIED.

An extensive Advertising Campaign is now proceeding in all the principal Society Papers.

SPECIAL TERMS—

Small quantities - - - - - $7\frac{1}{2}$% 1 Month

£5 lots and upwards - 5% Invoice and $7\frac{1}{2}$% 1 Month

SOLE WHOLESALE AGENTS FOR

GREAT BRITAIN, IRELAND, SOUTH AFRICA and INDIA—

WILLIAM TOOGOOD LTD.
77, SOUTHWARK ST
LONDON, S.E.1.

Forhan Advertising Reaches Your Customers

Persistent advertising in the "Daily Mail," as in many other newspapers and magazines throughout the United Kingdom, is carrying to millions of readers—to your customers—the facts about Forhan's For the Gums.

This advertising is emphasizing the point that Forhan's not only keeps the teeth clean and the mouth healthy, but that it also prevents or checks Pyorrhea, and heals sore and inflamed gums, etc., because it contains a percentage of Forhan's (liquid) Astringent.

Forhan's, packed only in double size tubes, may besoldatanyhour. The Government Stamp on every tube indicates that, while it also assures you that only those qualified to handle medicines may sell Forhan's. Order a stock today. Displays are available. Prices upon request.

Thos. Christy & Co.
4-12 Old Swan Lane, LONDON, E.C.4.

Forhan's
FOR THE GUMS

Violiv

An Advance Message to the Trade.

The progressive dealer who studies his public and their wants is—a successful business man.

Such retailers are always anticipating the seasons—preparing and stocking—and instructing their staffs in "human" salesmanship.

These retailers will be interested in the VIOLIV message this week. It is this:

We are now taking forward bookings of orders for

VIOLIV ICE

of which delighted users say: "It is the ONE emollient which keeps away roughness of the hands in the worst of wintry weather."

With such a reputation it is a good leading line on any dealer's winter programme. "Repeat" orders and ever-accumulating sales are assured. IT SELLS ITSELF.

Trade Terms as follows:

24/- per gross. 2½ % discount for cash with order. Special discount for larger quantities.

Retails at 4½d. per tablet—bringing a profit of 125 %

Showcards and Window Slips enclosed with each order.

VIOLIV MFG. CO.
26 Haymarket Terrace, Edinburgh.

Selling Agents for England & Ireland, Pattinson & Mackie, Ltd. Albion House, 59 New Oxford Street, London, W.C. 1.

V26 NorAd

NILDE of PARIS.

Nilde Powder	1/-	8/-	doz.
ditto	3/6	28/-	,,
Embroidered or Leather	5/-	40/-	,,
Rouge Nilde	1/6	12/-	,,
Embroidered or Leather	5 6	44/-	,,

POMEROY of LONDON.

Day Cream	2/6	24/5	doz.
Skin Food	1/9	15/5	,,
,, ,, ...	4/-	35/2	,,

DORIN of PARIS.

	Doz.
124 Dorin de Poche ...	8/-
1bis Rouge de Théâtre	6/-
4 Rouge Fin de Théâtre	7/-
63bis Eyebrow Pencils	3/4
451 Rouge Brunette ...	10/-
418 Dorina Powder ...	8/-
418ter ,, ,, ...	16/-

£5 lots 5% £10 lots 10%

LA REINE des CREMES.

Small	19/6 doz.
Medium ...	28/- ,,
Large	60/- ,,

PAPIER POUDRE.

4d.	6d.	8d.	1/3	
2/8	3/9	5/-	10/-	doz.

POPPŒA ROUGE.

1/- 8/- doz.

HOUBIGANT.

		Min. Retail. Each.
536	Idéal	25/6
539	,, ...	47/6
540	,, ...	95/-
710	Quelques Fleurs...	29/6
750	,, Violettes	25/6
569	Coeur de Jeannette	18/-
584	Mes Délices ...	25/6
661	Premier Mai ...	23/-

Subject to 33% and 5%.

ANZORA.

Cream ...	1/6	12/-	doz.
Viola ...	2/6	20/-	,,

3 doz.	1/6 or equiv. assd.	2½%
6 ,,		5%
12 ,,		10%

KRASKA.

1/2	9/6	doz.
1/8	12/6	,,

DIADEM Preparations.

				Doz.
Decoltene Depilatory ...	3/9	size	...	[illegible]
Dinkie Deodorant	2/6	,,	...	2[illegible]
Diadem Face Powder ...	2/6	,,	...	2[illegible]
,, Complexion Wax	2/6	,,	...	[illegible]0
,, Crême Rouge ...	2/6	,,	...	20
,, Vanishing Cream	3/9	,,	...	[illegible]
,, Talcum Powder ...	1/3	,,	...	10
,, Eau de Cologne, 1 oz.	2/3	,,	...	18
,, ,, ,, 2 oz.	4/3	,,	...	34
,, ,, ,, 4 oz.	7/9	,,	...	62
,, Parfum Sec ...	2/-	,,	...	16/-

Carriage Paid on £5 Orders. Cases Free or at Cost and Half Allowed if Retained.

289-325 City Road, MANCHESTER

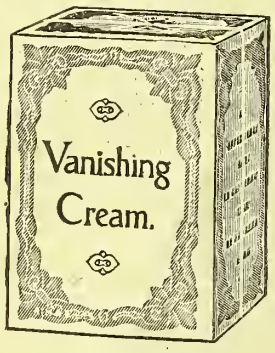
Hovenden's Toilet Preparations.

Attractive in Appearance, Reliable in Quality and Delicately Perfumed.

SEASONABLE **SALEABLE**

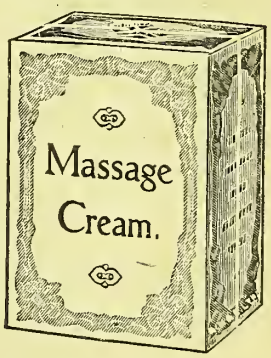
Suitable for High-Class Trade.

Bear our Trade Mark as a Guarantee of Quality.



WHITE.
No. 4764. 2-oz. size.
13/- doz.

No. 4776. 2-oz. size.
13/- doz.



No. 4765. WHITE. **13/-** doz.
No. 4768. 2-oz. size. PINK (Non-Greasy). **13/-** doz.

THE LATEST POPULAR SERIES.

Invaluable for all Toilet Purposes.

No. 4767. 2-oz. size.
13/- doz.

CHAMOMILE,
CHAMOMILE & ROSEMARY, PINE.
No. 4747. 7 packets in carton.
12/- doz. cartons.

Any article on this page can be supplied with Customer's Name and Address, in 1 gross quantities, FREE OF EXTRA CHARGE.

Each in Artistic Carton with Transparent Covering.

ASSORTED PERFUMES.
No. 4762. 2-oz. size.
12/6 doz.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

Subject to 2½ per cent. Cash Discount.
A copy of our Monthly Illustrated List will be sent on application.

R. HOVENDEN & SONS, Limited

89, 91, 93 & 95 City Road, Finsbury, E.C.1. Tel. No.: Clerkenwell 1260 (2 lines); and
29, 30, 31, 32 & 33 Berners Street, Oxford Street, W.1. Tel. No.: Museum 2810 (3 lines) **LONDON.**

Factory, 41 to 53 Britannia Row, Islington, N.

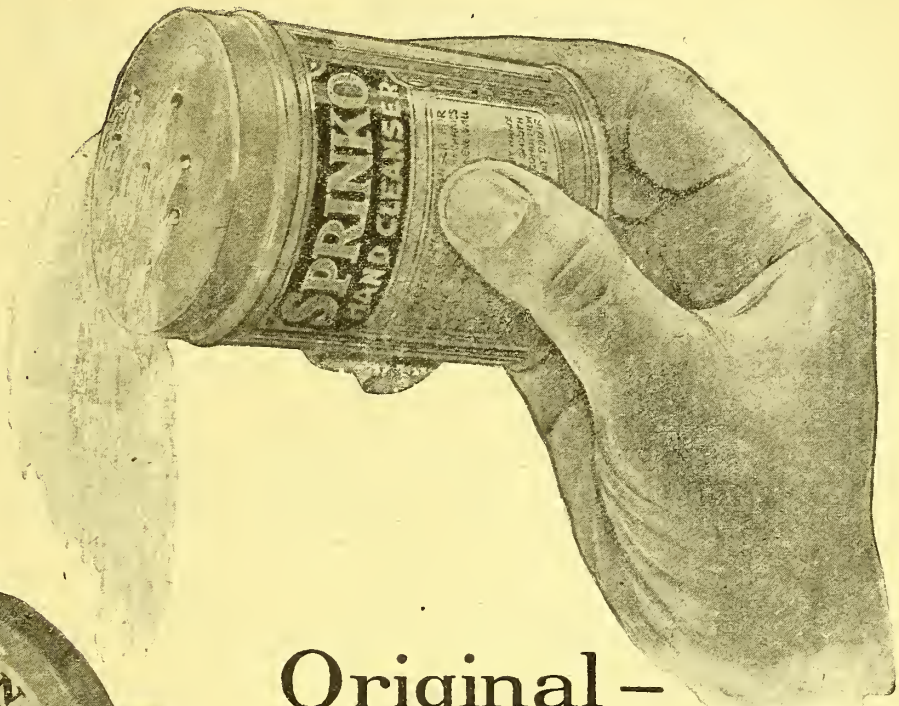
SPRINKO

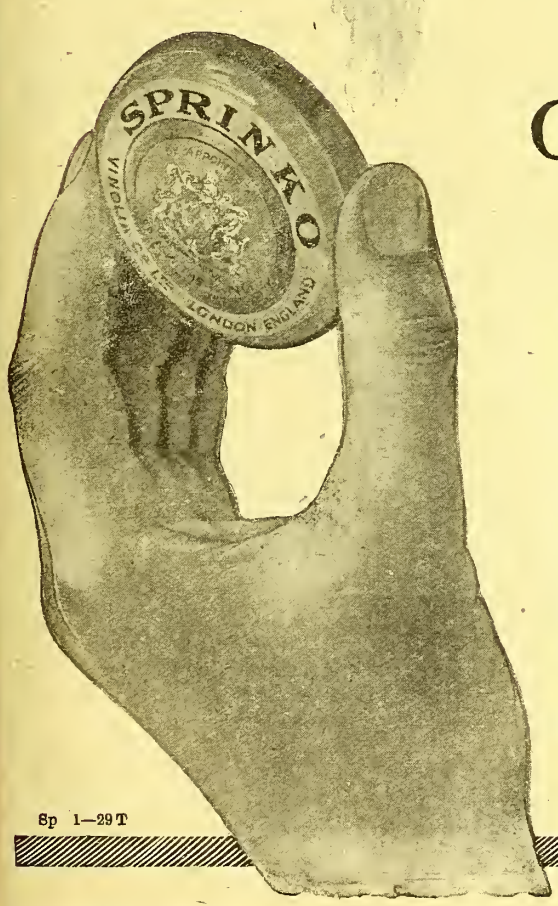
(ANTISEPTIC)

The Non-Abrasive **HAND CLEANSER.**

The name "VINOLIA" on the Sprinko Pack is its hallmark of Quality.

For motorists, cyclists, sportsmen, housewives, farm or garden workers.





Original – Attractive – Profitable.

THE makers of Sprinko present to the public a hand cleanser that is at once thoroughly efficient and yet has none of the unpleasant effects of most strong cleansers. Sprinko is a development from "Twinko," the preparation which gained such popularity. It is merely an old friend with a new name.

Sprinko is a quick selling line. It meets the need of all whose work entails soiled hands. It removes the most obstinate grease and dirt, and leaves the skin smooth and white. The dainty Sprinko pack makes an attractive display.

IN NEW STYLE SPRINKLER-TOP BOXES, 1/-

The 7½d. Pack is now discontinued.

VINOLIA COMPANY LIMITED, LONDON.
Offices and Works: Bebington, Cheshire.

Sp 1—29 T

Delphinus

TOILET PREPARATIONS

Face Cream. Dental Cream.
Brilliantine (Solid & Liquid).
Pomade Hongroise. Nail Polish.
Shampoos. etc.

Products of Unvarying Excellence

Prepared by
The Delphinus Mfg. Co.
45 Edward Street, Brighton.
Cables & Wires: Hongroise, Brighton.

We do not incur heavy expenses in advertising to the public, but prefer to give our Clients the benefit of increased profits.

Sole Agents for Scotland:
Messrs. HENDRY & SMITH & Co.
83 Renfield Street, GLASGOW.

BE WISE! *Write us* **TO-DAY.**

Delphinus
TRADE MARK.

COPYRIGHT.

The Evan-Williams
Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.
ORIGINAL HENNA **SHAMPOO.**

PROTECTS from all weathers, preserves the COMPLEXION
MOKOL SOFTENS ROUGH HANDS FACE CREAM FOR THE SKIN **MOKOL**
Reg. INDISPENSABLE IN THE HOME Reg.
For LIBERAL Wholesale Terms write to—
THE MOKOL CO., 98 Hatton Garden, London, E.C.

There's 'Good Business' in
Pasttella

Pearle Poudre *gives minimum profit of* **53%** *on outlay.*
and
Nail Poudre *gives minimum profit of* **55%** *on outlay.*

Sole Distributors,
F. NEWBERY & SONS LD. 27-28 CHARTERHOUSE SQ. LONDON, E.C.

TWO DAINTY LINES
THE BEST ON THE MARKET.

Actual size.

NOW IN STOCK. Packed in Pre-war Style Aluminium Hinged Boxes (enamelled finish) and Show Boxes of 1 dozen.
Per 6/- doz.

In Screw-top Boxwood Cases and Outers of 1 dozen with Showcards.
Per 4/- doz.

Manufactured by
SOLPORT BROS., LTD.
184-190 Goswell Road, London, E.C. 1.
Obtainable through all Wholesale Houses.

IMPORTANT NOTICE.

Enolin

The Retail Price of Enolin Tooth Paste & Powder now is

PASTE - 1/6 & 10d. per tube.
POWDER 1/3 & 7½d. per tin.

YOUR PROFIT INCREASED

Special Cash Allowance for Window Displays.

Write for new terms and particulars of this largely advertised proprietary to "Sales" Department.

A. & E. CARRERAS, Ltd., 207 King St., Hammersmith, W.6

Sole Export Agents :

PATTINSON & MACKIE, Ltd., Albion House, 59 New Oxford St., London, W.C.1

Nothing Succeeds Like Success.

DELIGHTFUL TO USE—PROFITABLE TO SELL.

SAPON
Cereal SOAPS

Household and Toilet.

The demand for all Varieties is ENORMOUS.

BETTER SOAPS—BETTER PROFITS

SAPON SOAPS say more in their own favour than we can put into print.

SATISFACTORY ALL WAYS ALWAYS.

We are in no way connected with any combine of Soap Makers

WRITE FOR PRICE LIST.

SAPON SOAPS LTD. LONDON BRIDGE, E.C.4.

Perspiration Troubles

LET US SEND YOU BUSINESS

There is a growing demand for Dulc-o-do, the toilet water which *corrects* excessive perspiration and obviates the use of dress shields. A doctor writes: *"I find it a splendid preparation."*
Send 20/- for a trial dozen 2/6 bottles and showcards, your name will then be placed on our depot file and all future inquiries from your district will be directed to you.

Dulc-o-do

Corrects Under-Arm Perspiration

Scott's Chemical Co.,
47, Huddlestone Rd.
London. N.W.

"Newbery's"

FRANCIS NEWBERY & SONS Ltd

You will profit by stocking our Packed Goods, and your customers will obtain satisfaction.

Castor Oil	Brilliantines
Syrup of Figs	Hair Cream
Medicinal Paraffin	Dental Cream
Chemical Food	Smelling Salts

Bath Salts

All these lines attractively packed.

CHARTERHOUSE SQUARE, LONDON, E.C. 1.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous

LEROZA

Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention.

Put up in specially designed tins (containing about 1 1 oz.) to Retail at **2/-** *per tin.*

Trade Terms: **18/- per dozen CARRIAGE PAID.**
Net Monthly Account.
7½% off for Cash within 7 days.

From the Sole Inventor and Manufacturer,

ARCHIBALD MOLE-FLOYD,
The Leroza Theatrical Stores,
71, 73 & 75 Cambridge St., GLASGOW.

The Dye with a Reputation for reliability.

ROYAL COURT HAIR DYE

SEVEN SHADES.
1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.
The only dye giving a natural gloss to the hair.
From all wholesalers or direct
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St. Giles, Salisbury.

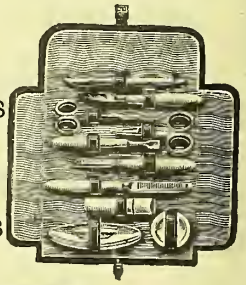
Importers of Face or Powdered Paper.

Stocked in Rouge, White, Pink and Natural.
Cases of 50 reams. 96 sheets per ream.
Rouge, 11/-, other colours 8/- per ream, *ex* store London.

We Manufacture all we sell. **We have representatives in Manchester, Glasgow & Ireland.** **Wholesale & Shipping only supplied.**

MANICURE SETS
MANICURE PARTS
HANDLES
NAIL FILES

DRESSING COMBS
DUST COMBS
BRUSH BACKS
ERINOID ARTICLES



MYERS, LUMOS & CO.,
Sales Offices - **35/6 Aldermanbury, E.C.**

Ring up City 3526.

Factories:
Islington & Finsbury Park, London, N.

MARSHALL'S

Lysol

This ENTIRELY BRITISH-OWNED Product is now made in our New Factory at

RAYNES PARK LONDON, S.W.19

Pharmacists are asked to specify Marshall's Lysol ("L" Brand) when ordering from their wholesaler in order to obtain the standard British article.

LYSOL LIMITED, RAYNES PARK, S.W.19.

Telegrams: "Lysolant, Cotten, London." Telephone: Wimbledon 339/340.

SPECIAL OFFER.

This Season's Norwegian Non-Freezing

COD LIVER OIL.

Big Buyers should apply to—

ALLIANCE EXPORT & IMPORT CO., LTD.

CHRISTIANIA - - - NORWAY.

MERCERISED CORDS

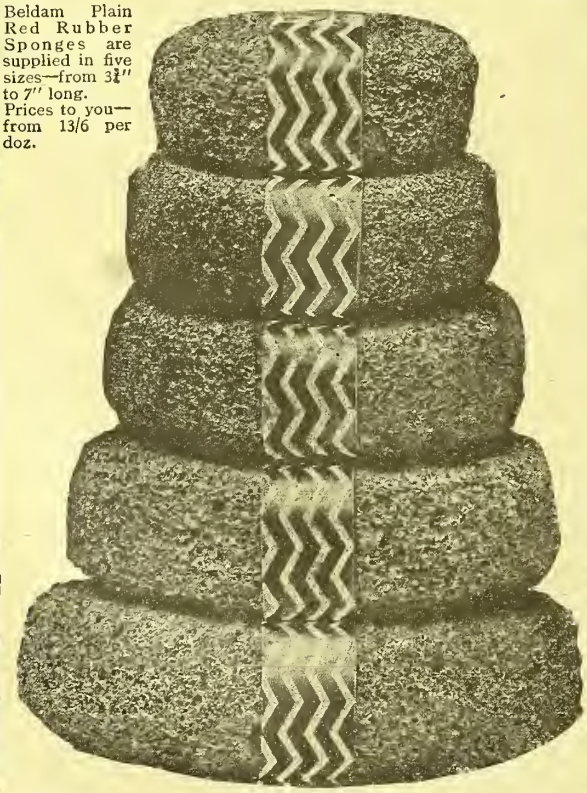
FOR TYING-UP PERFUMERY, &c.

CORDS FOR SPONGE BAGS
CORDS FOR SOOTHERS
MEDICAL TWINES
ALL SIZES AND COLOURS IN STOCK

The Albion S.C. Co., Ltd. FAWLEY MILLS, TOTTENHAM, **London, N.17**

PHONE 2121 TOTTENHAM. TELEGRAMS—"ENCAGED, PHONE, LONDON."

Beldam Plain Red Rubber Sponges are supplied in five sizes—from 3¾" to 7" long. Prices to you—from 13/6 per doz.



Godbolds.

BELDAM

Pure Rubber

SPONGES

BELDAM Rubber Sponges are better and last much longer than ordinary rubber sponges. They are made from the best red rubber. They are of a fine, soft texture, delightful to use.

They provide the perfect sponge for use in the toilet, the bath, the lavatory, the sick room or the surgery. Medical men recommend them. They are unaffected by boiling water or by strong disinfectant.

Address:

Rubber Sponge Dept., The Beldam Tyre Co. (1920) Ltd.
Brentford, Middlesex.

AN APOLOGY
BY THE
CARMA COMPANY.

Owing to the extraordinary number of inquiries received in response to our advertisements in the "Chemist and Druggist," we regret that exhaustion of our stock of Sample Containers has prevented prompt dispatch of samples. This has now been remedied and no delay will occur in future.

The Trade are notified that the CAPPING SOLUTION sold by us will henceforth be known as

DIP-A-DIP
SEALING SYRUP.

The name "CARMA" being unsuitable for registration.

DIP-A-DIP is a solution in which a bottle is dipped and a cap is immediately formed, hermetically sealing the bottle. A minimum of labour is required, and at least a thousand an hour can be done.
Supplies in White, Red, Blue, Gold and Aluminium.

Price 25/- per gallon net.
Cash with order.
Carriage Paid. Packages Free.

Please state colour required when ordering.

The CARMA COMPANY, 1 Steward Street, E. 1.

JOB BROTHERS

GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

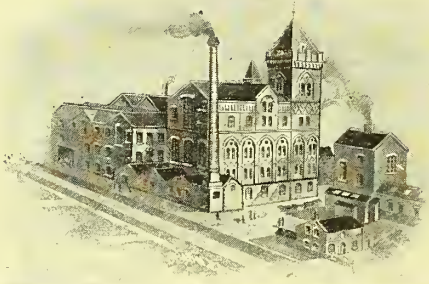
WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address: "JOB LIVERPOOL" Tel.: 1039 CENTRAL

And of ST. JOHN'S, N.F. Established 1780.

"John Bull" (REGD.)



MALT EXTRACT

and

COD LIVER OIL

Does not separate.

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

Telephone No.: 787 Trafford Park, Manchester. Telegraphic Address: "Stevenut Manchester."

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(G. STEVEN, Ph.C., M.P.S., Proprietor)

Wholesale Chemists, Druggists & Drug Grinders

Cornbrook Works, Chorlton Rd., MANCHESTER

TABLETS. Manufacturers of all kinds of Medicinal Tablets, plain sugar and chocolate-coated, packed and in bulk. We are now prepared to supply large quantities of

Bronchial Tablets
Pine Compound Tablets
Formalin and Mint Tablets
Bismuth and Magnesia Tablets

EXTRACTS. All B.P. Liquid Extracts are prepared with the best materials.
We can supply to advantage:
Liquid Extract of Cascara

SYRUPS. We guarantee our Syrups to give satisfaction.

Chemical Food, packed and in bulk (free from inky taste)
Compound Syrup of Figs
Compound Syrup of Hypophosphites
Compound Syrup of Glycerophosphates
Raspberry Vinegar, prepared from this year's fruit, is of exceptional quality and flavour.

EMULSIONS **Cod Liver Oil Emulsion,** packed and in bulk. Prepared from Norwegian Oil by the most up-to-date process.
Petroleum Emulsion, packed and in bulk.

Packed Specialities.
"NIOBE" Skin Food (Chemist's Name and Address).
Eau de Cologne No. 188, 2 oz. and 4 oz. White or green glass bottles.
Lavender Water (distilled from flowers), 2 oz. and 4 oz.

We are OPEN TO RECEIVE ORDERS for the GRINDING OF DRUGS.

All our Products are guaranteed of the Very Highest Quality.

DELIVERIES FROM STOCK.

DRUGS.

Chemicals.

Essential Oils.

Superfine Powders.

CHEMICAL FOOD.

This preparation is guaranteed to remain perfectly bright.

Agreeable to the Palate.

Supplied in bulk, or packed in bottles and labelled.

DRUGS.

Chemicals.

Essential Oils.

Superfine Powders.

TINCTURES, B.P.

Tinct. Aurantii
Tinct. Benzoin Co. B.P.
Tinct. Calumbæ, B.P.
Tinct. Camph. Co. B.P.
Tinct. Conch. Co. B.P.
Tinct. Gentian Co. B.P.
Tinct. Opii, B.P., etc.

Special Prices for Winch. Quarts and upwards.

B.P. SYRUPS.

Syrupus, B.P.
Syr. Aurantii, B.P.
Syr. Limonis, B.P.
Syr. Rheados, B.P.
Syr. Scillæ, B.P.
Syr. Tolu, B.P., etc.

Special prices for deliveries of 4 gallons and upwards.

MALT PREPARATIONS

Malt and Oil, B.P.C. and Extract of Malt.

Packed in screw-cap jars, 1 lb. and 2 lb. by weight.

Also in lever-lidded tins, 1 lb. and 2 lb. by weight.

MILLED OINTMENTS.

Ung. Ac. Boric, B.P.
Ung. Cetacei, B.P.
Ung. Hyd. Ammon. B.P.
Ung. Resinæ, B.P.
Ung. Sulph. B.P.
Ung. Zinci, B.P., etc.

Special prices for deliveries of 28 lb. and upwards.

COMPRESSED TABLETS.

Aspirin, 5 gr.
Cascara, 2 gr. s c.
Pot. Chlor., 5 gr.
Soda Mint, 4 gr.
Thyroid Ext.,
etc.

Special prices for deliveries in quantities.

PRICE LIST of Drugs, Tablets, Pills and Packed Drugs forwarded on application.

PRICE LIST of Drugs, Tablets, Pills and Packed Drugs forwarded on application.

THE

TURNER DRUG & GALENICAL Co., Ltd.

Manufacturing and Export Chemists,

ILFORD, E.

SOME TRULY REMARKABLE TESTIMONY FROM CHEMISTS

Who write us to tell of how "restless" they find their stocks of

REUDEL BATH SALTRATES AND ALKIA SALTRATES

The best of all preparations for the bath.
Sells at 2/- and 3/3 (P.A.T.A.).

The Acme of perfection in Salines.
Sells at 3/3 a large bottle (P.A.T.A.).

These products simply will not stay on the shelf.

NOTE.—The following statements were sent us without solicitation of any kind.

Mr. Chas. Robertson of St. Andrews, wrote us saying that our products were proving so restless that he had difficulty in keeping them on his shelf. He had just made three sales within 15 minutes. Mr. J. L. Lewis of Harlesden, and many other Chemists have also written us telling of similar experiences.

In a recent advertisement we reproduced Mr. Robertson's letter in facsimile, and Mr. A. W. Cornish of Bristol, after reading that announcement, now writes us to say he has eclipsed even Mr. Robertson's record, having himself made four sales in five minutes.

By special permission, we reproduce below, in full, the letter which Mr. Cornish has kindly sent us.

A. W. CORNISH, M.P.S.
THE PEOPLE'S CHEMIST
The Oxford Pharmacy 188 Lower Ashley Rd.
BRISTOL

Messrs Saltrates Ltd.,
212/214, Gt Portland St,
London. W.1.

April 24th. 1920.

Dear Sirs:- I was reading through reproduction of Mr Robertson's (St Andrews) letter on page twelve of to-day's date Chemist & Druggist and I think this afternoon I surpassed his feat, in my shop as above. Four customers following, purchasing Saltrates preparations, as follows.

2/- Reudel Bath Saltrates) All in
3/3 Alkia Saltrates) five
2/- Reudel Bath Saltrates) minutes
3/3 " " ") or so.

Later on in the day I was asked for another 2/- size Reudel, but in this case the customer would not take the 3/3 size, so I missed the sale, having just sold the last small package. I am quite prepared to admit that this is a coincidence that does not often occur, and probably was in part due to other brother Pharmacists being "Sold out". But your preparations are always good sellers with me.

I thought the foregoing would interest you, and it is absolutely authentic, as my Lady Assistant can witness. If the "Tale wants adorning" and I may "point a moral", I would say never load up your shelves with goods that stick there, but to borrow Mr Robertson's "natty" phrase fill up with "restless" goods, which are restless to the point of removal for "Cash Till Food".

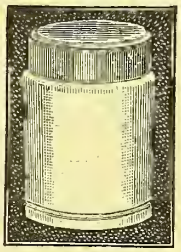
With compliments,
Yours faithfully,
A W Cornish

Just what you want
IN
GLASSWARE
of every description.

YOU may perhaps be buying only for immediate requirements and cannot get prompt delivery of the goods wanted. Apart from our huge Provincial stock, bear in mind we have *ready for delivery* at our various London depots

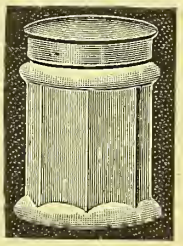
APPROXIMATELY
10,000 cases
of every description of Glassware for all purposes.

Porcelain Pomade (with Celluloid Caps). ½, 1, 2 and 4 oz.



Smelling Salts.

Opal Octagon Pomade. 1 & 2-oz. with Screw Caps



The following are some of the lines we offer:

LIMES, tinted green, squat, 2-oz., packed about 15 gross cases, **12/-** gross net. Free port London. About 200 gross stock.

LIMES, tinted green, 4-oz., packed about 8 gross cases, **18/-** gross net. Free port London and Newcastle-on-Tyne. About 500 gross stock.

MEDICALS, tinted green, 4-oz., plain, 1st quality, packed 5 gross cases, **21/-** gross net. Free port. Stock 650 gross Hull. 100 gross London. 100 gross Liverpool.

MEDICALS, tinted green, 2nd quality, 8-oz., grad., packed 3½ gross cases, **24/-** gross net. Free port Hull. 150 gross stock.

MEDICALS, tinted green, 1st quality, 8-oz., plain, packed 5 gross cases **30/-** gross net. Free port London. 150 gross stock.

VIALS, tinted green, 6 drams, packed 13/23 gross cases, **10/6** gross net. Free port Leith, Hull, and Glasgow, about 1,000 gross stock in all.

MEDICALS, 2-oz., tinted green, packed about 15 gross cases, **19/-** gross net. Free port Leith. 6 cases stock.

TOBINS, tinted green, 2½-oz., Hull and London.

VIALS, tinted green, 2-oz., London only.

CHELTENHAMS, 6-oz., flint, London only.

VIALS, ½-oz., flint, large quantity, London.

VIALS, 1-oz., flint, large quantity, London.

VIALS, 2-oz., flint, large quantity, London.

MEXICANS, flint, 1-oz., 1½-oz., 2-oz.

LIMES, green, 1-oz., London only.

Wholesale Only. **No Retail Firms Supplied.**

JULES LANG & SON.

CHARLTON WORKS:
Charlton Place, Islington, London, N. 1.

Telephones: North 2770-2 (three lines). *Telegrams:* "Assorted, Phone, London."
Please mention this Paper when sending us your inquiries.

Reduce your spirit account by using

TRADE MARK **'WELLCOME'** BRAND

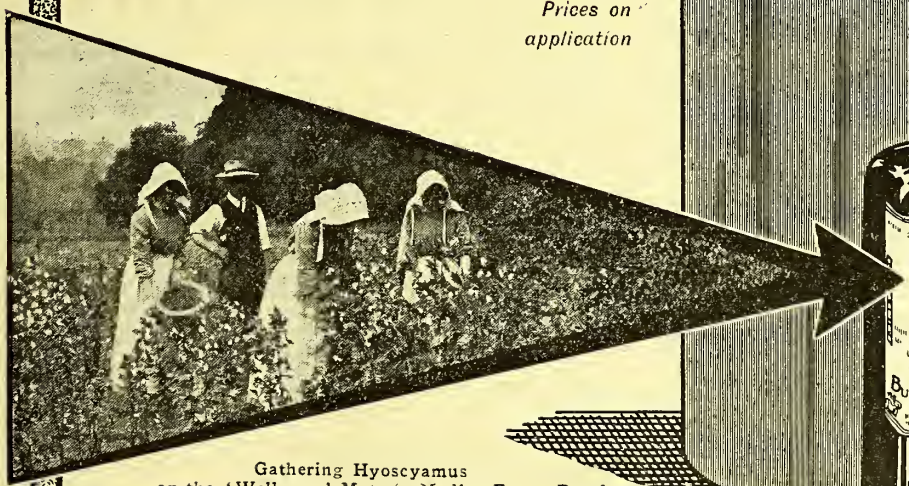
Concentrated Tinctures

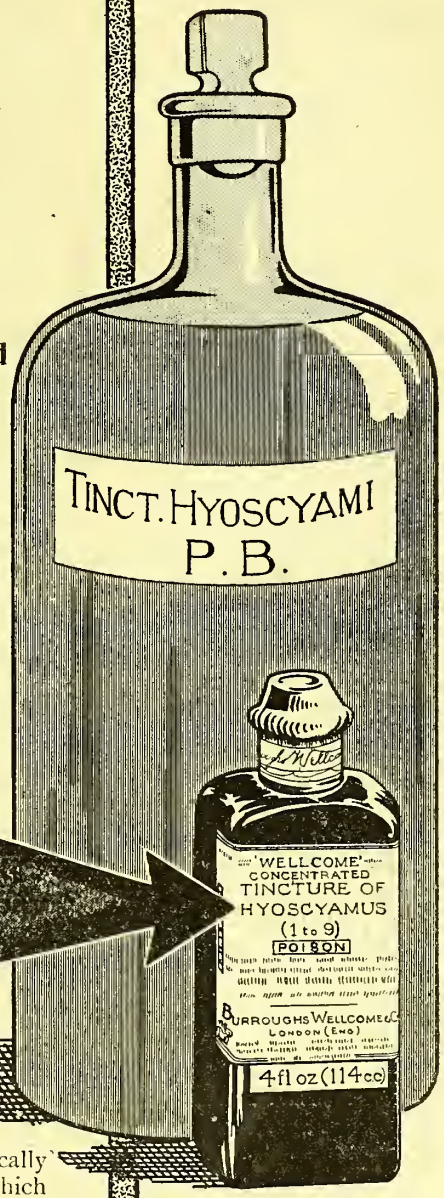
They enable you to make B.P. Tinctures whilst holding only a small stock of spirit.

You simply dilute them as required

In preparing your own proprietaries, where the use of spirit is optional, a great saving may be effected.

Prices on application





Gathering Hyoscyamus
on the 'Wellcome' Materia Medica Farm, Dartford

'WELLCOME' Concentrated Tinctures are scientifically prepared from the finest raw material, much of which is cultivated at the 'Wellcome' Materia Medica Farm.

BURROUGHS WELLCOME & CO., LONDON

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C C

For the Busy Pharmacist.

A Reliable WINTER LINE, SELLS WELL—GOOD PROFIT and gives entire satisfaction to the Public.

M. D. COUGH CURE.

Retail	1/3	Wholesale	10/6	per doz.	Less our Profit-Sharing Discount of 10%
,,	2/3	,,	19/-	,,	
,,	4/-	,,	34/-	,,	

This line is Cartoned in an attractive, forceful and Saleable style.
Large Window Bill and Showcard supplied.
Book early to ensure delivery. Carriage Paid on orders of £6 value.
Registered Chemists only supplied.

CUPAL LIMITED - - - BLACKBURN.

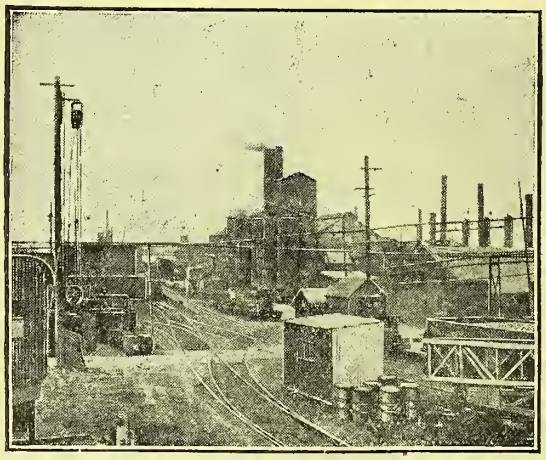
'Ialine' Disinfectants

Also
FLUIDS
containing
10 — 80 %
Tar Acids.
High Co-efficient
FLUIDS
up to 18—20
Rideal-Walker
Method.

LYSOL

SHEEP DIP

Approved by the Board of Agriculture for Sheep Scab.



Coal Tar and Ammonia Products

Benzols, Toluol, Solvent Naphthas. Carbolic and Cresylic Acids, Creosote and Fuel Oils, Pitch, etc. etc. Timber for Dock and Harbour work. Deals, Battens, Boards, Floorings, etc. Railway Sleepers and Crossing Timbers, Telegraph Poles, etc. etc. Saw Millers and Timber Preservers.

Burt, Boulton & Haywood, Ltd. Salisbury House, London Wall, E.C. 2

Telegrams: "Burboul, Ave, London." Cables: "Burboul London."
Codes: A B C (5th Edit.); Lieber's; Western Union; Bentley's.

CARBOLIC POWDERS
CREOSOTE POWDERS
CO-EFFICIENT POWDERS
PINE OIL POWDERS
PINE OIL FLUIDS
PINE OIL BLOCKS
NAPHTHALENE BALLS
,, CANDLES
,, TABLETS
,, FLAKE
,, BLOCKS
,, POWDER
LIQUID SANITARY SOAP
WOOD PRESERVATIVE
ETC. ETC.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9*d*. post free; *Diary*, 5*s*. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20*s*., franco.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., franco.

Terms for Advertising may be obtained on application to the Publisher

HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines).

BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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Known, Admitted, and Approved Remedies.

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1921, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the "British Pharmacopœia," and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent as promptly as possible within the next few weeks addressed to the Editor, *C. & D.*, 42 Cannon Street, London, E.C. 4.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Passenger Train Parcels.

Standard scales of rates for the conveyance of parcels by passenger train, which came into operation on September 1, have been issued by the Railway Clearing House. There are two scales, one for general parcels, and one for parcels at owner's risk, the latter being applicable only to certain perishable and other traffics. The rates are applicable, with certain exceptions: (1) Between all stations where through bookings are in operation in Great Britain; (2) between all such stations and ports in Great Britain; (3) between all such stations and ports in Great Britain and Ireland; (4) between all such stations and ports in the United Kingdom and Jersey, Guernsey, and Douglas, Isle of Man; and (5) between all such stations in Ireland. Under the general scale the charge for parcels up to 3 lb. in weight will be 11*d*. for any distance.

From 3 lb. to 7 lb., 1*s*. 4*d*. for any distance.

To 11 lb., 1*s*. 9*d*. for any distance.

To 15 lb., 1*s*. 11*d*. up to 30 miles; 2*s*. 1*d*. up to 50 miles; 2*s*. 2*d*. up to 100 miles; 2*s*. 6*d*. up to 200 miles; 3*s*. 1*d*. above 200 miles. For 20 lb. the charges range from 2*s*. 1*d*. for 30 miles up to 4*s*. 1*d*. for distances above 200 miles; and they gradually increase for each 5 lb. in weight up to 100 lb., when the charges are: Up to 30 miles, 4*s*. 1*d*.; for 50 miles, 8*s*. 2*d*.; for 100 miles, 12*s*. 3*d*.; for 200 miles, 16*s*. 4*d*.; and above 200 miles, 20*s*. 5*d*. For 112 lb. the charges are the same as for 100 lb.; and for greater weights the rates can be obtained at the stations and offices of the railway companies.

On the owner's risk scale the charges are: Parcels up to 3 lb., 9*d*. for any distance; to 7 lb., 1*s*. for any distance; to 11 lb., 1*s*. 4*d*. for any distance; to 15 lb., for 30 miles, 1*s*. 4*d*.; 50 miles, 1*s*. 6*d*.; for 100 miles, 1*s*. 7*d*.; for 200 miles, 1*s*. 9*d*.; above 200 miles, 1*s*. 11*d*. For 20 lb. the charges range from 1*s*. 6*d*. for 30 miles up to 2*s*. 2*d*. for distances above 200 miles; and rates increase for every 5 lb., till for 100 lb. or 112 lb. the charges are: Up to 30 miles, 3*s*. 1*d*.; 50 miles, 4*s*. 1*d*.; 100 miles, 6*s*. 2*d*.; 200 miles, 8*s*. 2*d*.; above 200 miles, 10*s*. 3*d*. There are slightly increased charges from stations in Scotland and from Irish interior stations to Jersey, Guernsey, and certain stations on the Great Western, Brighton, and South-Eastern Railways. Certain traffics, owing to their nature, are charged at higher rates than those embodied in these scales, and there are special rates also for stations in the Isle of Wight and on certain light railways, particulars of which can be obtained at the stations and offices of the railway companies.

Threatened Miners' Strike.

The Federation of British Industries have forwarded a letter to the leading manufacturers and trade and manufacturing associations in the United Kingdom, deprecating the immediate closing of works in the event of a strike of miners. "It must be remembered," states the letter, "that the quarrel is not one between the miners and their employers, but is a direct challenge of the policy of the Government. The manufacturers of the country and the innocent workers in other industries are equally threatened by such a strike, which must involve all in heavy losses and serious unemployment, since few firms will be in possession of coal supplies sufficient to carry on for more than a very short period. It seems, therefore, to be the plain duty of employers in this national crisis to keep open their works as long as possible in order to mitigate the hardships which must result from the strike to the community at large."

The Metric System in Trade.

Various recommendations are made in the report submitted by the Metric Committee appointed by the Conjoint Board of Scientific Societies on the compulsory adoption of the metric system in the United Kingdom. As regards weights and measures the committee recommend that the British system of units be retained in general

use in the United Kingdom. In measure of length, the abolition of the pole, furlong, and league is advocated as well as the limitation of the link and chain to use in the determination of area. Among other suggestions is the abolition of the grain, dram, stone, quarter, hundredweight of 112 lb., the peck, bushel, quarter, chaldron, and barrel. It is advocated also that the use of the metric system be made compulsory with as little delay as possible in the whole trade in fine chemicals and drugs, and in all specifications and prescriptions relating to such products. So far as coinage is concerned, no change in the existing system is to be attempted in present circumstances.

House-organs.

The following are among the house-organs that have reached us during the month :

"Trade Notes" (Rajar, Ltd., Mobberley) for September contains particulars of a process for reproducing a letter, drawing, or map by means of bromide or gaslight paper without the interposition of a plate.

"Reflections" (The Icilma Co., Ltd., London, N.W. 1) combines business with pleasure; among the jokes and comments, several hints are given to the pharmacist who is anxious to make the most of his opportunities. The current number is described as a staff effort (Mr. L. H. Hartland-Swann is away for a well-earned rest). The Icilma Festival is announced to take place on September 24 in the Connaught Rooms.

"Camera House Journal" (W. Butcher & Sons, Ltd., London, E.C. 4) again calls attention to "all-the-year-round photography" by means of co-operation between wholesaler and retailer. The advantage to photographic dealers in joining the Photographic Dealers' Association is indicated. The Photographic Almanac is in course of preparation, and Messrs. Butcher suggest that copies should be ordered without delay in order to ensure delivery.

"Bubbles" (A. & F. Pears, Ltd., London, W.C. 1) fully maintains the high standard which characterised previous issues. The August number contains several photographs, one of which was posed for by Lord Leverhulme, his granddaughter Ruth, the Hon. W. Hulme Lever and the Hon. Mrs. Hulme Lever. Other photographs taken on the occasion of the twenty-ninth annual meeting of Pears' Athletic Club are of equal interest. The humorous sections are fresh and unforced—we can imagine a rush of applications for the pots of jam referred to in "Transparencies"!

Summer Outing.

About forty members of the Southampton Pharmacists' Association went for the annual outing on September 1. The party journeyed by motor chars-à-bancs through the New Forest, Lymington, and along the coast to Christchurch, where the hospitality of Mr. W. H. Jewell, the President, was enjoyed in the form of a high tea. Mr. Jewell was unable to join the party owing to the illness of his wife. A telegram expressing sympathy was sent to him. After inspecting the Priory, and yachting on the river, the party returned, reaching home about 9 P.M. Among those present was the President of the Bournemouth Association (Mr. Martin).

Birmingham.

The difficulties caused by the day-continuation schools have led to a conference between employers and education authorities on the subject.

The appointment of Mrs. Barrow Cadbury, daughter of Mr. Alfred Southall, as a J.P. (*C. & D.*, August 7, p. 50) has been confirmed by the Lord Chancellor.

Canal tolls and charges in the Midlands are to be raised on September 16. The local Rotarians, in conjunction with those of Gloucester, are interested in a scheme for providing "a short and effective way to the sea."

Liverpool.

More American civilians are in Liverpool at present than for many months past.

Mr. A. W. Ashcroft and Mr. A. J. Ferriday are on holiday at Ashover, Derbyshire.

The "Pharmaceutical Veterans" pages of last week's *C. & D.* (pp. 83 to 85) evoked much interest in Liverpool. The late Joseph Roberts, to whom Mr. John Pikes refers, had (remarked a local veteran) a *penchant* for buying up businesses which were languishing more or less in obscurity. Probably these deals yielded him a goodly profit, he being a keen buyer and seller.

The labour unrest is depressing business, and "sales" at the large shops are suffering from temporary lack of advertising publicity. Many commercial traders, including representatives of chemical industries, attended a meeting at the Exchange News Room held on September 7 under the auspices of the British Empire League. The need for anti-revolutionary propaganda was emphasised.

The assistant local secretary of the British Pharmaceutical Conference, Mr. W. J. Williams, A.C.I.S., has been presented with a travelling-bag in recognition of his services at the recent Conference. The presentation was made by Mr. H. Humphreys Jones, who, in referring to Mr. Williams's untiring efforts in connection with the excursion to Wales, humorously forecasted a trip by airships to Paris as one of the Conference excursions of the future! Suitable reference was made to the assistance rendered by Mrs. Williams in the work of organising the events of July 19 to 24.

The recently issued annual report of the Liverpool Medical Officer of Health, which covers the year 1919, contains several matters of interest to pharmacists. A detailed account is given, for instance, of the steps taken to check the spread of anthrax by the agency of shaving-brushes—the history of which steps has been indicated in the *C. & D.* from time to time. It appears that from November 11, 1919, to the end of that year fifteen out of forty-eight brushes examined for anthrax gave a positive result. The number of rats submitted for bacteriological examination was 9,498, 7,310 of these being obtained from the port. "In regard to [rat] poisons," the report states, "it is difficult to say whether one poison has an advantage over another." The number of specimens examined in connection with the Wassermann and cognate tests was 5,741, and the number of doses of salvarsan issued by 20,300. Investigations as to improved methods of carrying out the Wassermann reactions have been carried out. The number of outbreaks of parasitic mange in animals was 268—prosecutions, however, numbering but four. The only case in which an article sold in pharmacies was the subject of a prosecution under the Sale of Food and Drugs Acts was one in which a baking-powder was found to contain 10 per cent. of calcium sulphate. Cases of suicide by taking poison numbered four, and fatal accidental poisonings were equal in number. Twenty licences were renewed, and three fresh licences granted, under Section 2 of the Poisons and Pharmacy Act, 1908. The final paragraph of the preface expresses the view that "a great stimulus to sanitation is confidently hoped for from the establishment of a Ministry of Health."

Manchester.

Mr. T. Miller, secretary of the Manchester Pharmaceutical Association, 5 Yarburgh Street, Whalley Range, sends us a letter in regard to the War Record of Pharmacists which is being compiled by a committee appointed for that purpose. Mr. W. Kirkby, M.Sc., is to act as editor of the local record. Mr. Miller desires to get in touch with men who enlisted in Manchester and have since demobilisation taken up their residence in other parts of the country. The scope of the War Record was explained fully in the *C. & D.*, May 8, p. 62.

Miscellaneous.

Poison-licence Application.—M. Blundell, seedsman, Eastbank Street, Southport, has applied for a licence to sell agricultural and horticultural poisons.

Theft of Artificial Teeth.—Articles used in dental surgery, including nearly 14,000 artificial teeth, gold bridges, and a quantity of scrap gold, valued at over 600*l.*, were stolen, on September 6, from a shop in Brick Lane, London, E.

Bowls Championship Contest.—The final of the single bowls championship of the London (Western) Pharmacists' Association was played on August 31, the contestants being Mr. W. Wilkinson and Mr. J. Widgery. The former (who was "runner-up" in last year's competition) won by 21 points to 10.

Medical Herbalists.—The Halifax branch of the National Association of Medical Herbalists has decided to open a local herbalists' clinic. No charge is to be made for the advice given, and there is no obligation to undergo treatment. The clinic is to be held on the last Sunday in each month, at the Shroggs View Terrace, Pellon Lane, the first to take place on September 26.

Acid in Street.—A contractor's van laden with carboys of what is alleged to have been sulphuric acid collapsed in West Ham Lane, Stratford, London, E., on September 3. Some of the carboys were smashed, and the fire brigade was called to wash away the acid. When, however, an attempt was made to get the cart away several carboys fell out, and the flushing process had to be repeated.

Tobacco as a Drug.—It was recently stated that Boots, Ltd., are to add the sale of tobacco to their other activities in drugs, books, food, and fancy goods. The "Tobacco Trade Review," commenting on this, points out that some of the leaders of the United Drug Co. of America are closely associated with the Tobacco Products Corporation of Great Britain and Ireland, Ltd., which started operations in London recently.

Poisoning.—An inquest was held by the coroner for the East Riding of Yorkshire, on September 6, on the body of Mr. Robert Watson Railton (20), a chemist's assistant, residing at Cranswick. The evidence showed that the deceased, who had served in the Army, had for some weeks past been taking tincture of opium for insomnia. On September 5 he was found unconscious in bed, and medical aid proved unavailing. Death was certified as due to coma following an overdose of laudanum; a verdict was returned of "Death from misadventure."

Attempted Suicidal Poisonings.—At Rugby, recently, Alfred Holmes and Muriel Barker, both of Coventry, were charged with attempting to commit suicide. The evidence showed that four bottles which had contained tincture of opium were found in the possession of the accused when they were discovered in a semi-conscious condition in a railway carriage at Rugby Station. According to a statement made by Holmes, each of the accused had taken ½-oz. of the tincture. They were committed for trial.—At Doncaster Police Court, recently, Mary Parkin was charged with attempting to commit suicide by taking zinc sulphate. A week's remand was granted in order that the woman might be kept under observation.—At Marylebone Police Court, London, on September 2, W. Blain, charged on remand with attempting to commit suicide by taking spirit of salt (*C. & D.*, August 28, p. 51), was bound over.

In the Courts.—At Greenwich Police Court, London, on September 6, Thomas Stopher, ship's steward, was charged on remand with administering poison with intent to murder (*C. & D.*, September 4, p. 67). A medical witness stated that some sandwiches handed to him were smeared with green paste which contained phosphorus. There was sufficient paste on the sandwiches to cause a fatal result had all of them been eaten. Stopher was again remanded.—At the same court, recently, a lad named Abbott was charged with stealing fifteen 1*l.* Treasury notes and stamps value 2*s.*, the property of Mr. Edward Cranston, chemist and druggist, 314 Sangley Road, S.E. 6. The magistrate discharged the prisoner on the ground of insufficiency of evidence.—At Mansion House Police Court, on September 7, A. Josst, ship's steward, was charged with having in his possession five tins of prepared opium, contrary to the provisions of Regulation 40B of the Defence of the Realm Act. It was stated in evidence that Chinamen in London would pay 20*l.* per lb. for opium of this description, and that the tins were taken in the first instance to Apothecaries' Hall. A remand was ordered.

Provincial Optical Examinations and Meetings.—The British Optical Association will hold a practical examination in Sections 1 and 2 of the Dioptric grade at the School of Technology, Manchester, on September 28. The theoretical portion will be held in Manchester on November 25. Should sufficient candidates present themselves a theoretical examination only will be held in Glasgow on November 25 for both Dioptric and Fellowship grades. These fixtures are in addition to the usual November examinations held in London. It is intended to hold an examination in practical work for both Dioptric and Fellowship grades in Glasgow in the early part of 1921. Candidates who have passed the examination of the Spectacle-makers' Company prior to December 1919 will be allowed to present themselves for the Fellowship examination without having to undergo previously or pay the fees of the Dioptric examination.—In order to celebrate the twenty-fifth anniversary of the British Optical Association, and in recognition of the fact that the Association owes its inception to Manchester opticians, it has been decided to hold the next council-meeting in Manchester on September 27. A dinner will be held in the evening. Prices of tickets and further particulars may be obtained from Mr. W. B. Barker, D.B.O.A., 34 King Street, Manchester. A lantern lecture on "The Fundus of the Human Eye" will be given by Dr. Margaret Dobson on September 28.

Irish News.

The Pharmaceutical Society of Ireland.

Intending new candidates for election to seats on the Council should note that their nomination papers must be in the Registrar's hands by twelve o'clock noon on September 20.

The latest dates for lodging applications for the October examinations are as follows: Thursday, September 23, for the Preliminary examination; Tuesday, September 28, for the Registered Druggist examination; Wednesday, September 29, for the Pharmaceutical Licence examination; Monday, October 4, for the Pharmaceutical Assistant examination. Applications should be lodged with the Registrar by 11 A.M. on the respective dates. Candidates are requested to note the following revised fees: Preliminary examination, entrance 3*l.* 3*s.*, re-examination 2*l.* 2*s.*; Pharmaceutical Licence examination, entrance 10*l.* 10*s.*, re-examination 4*l.* 4*s.*; Registered Druggist re-examination fee, 2*l.* 2*s.*

Brevities.

Business in Belfast continues to be affected by the disturbed conditions which have prevailed in that city for some time. Chemists and druggists, in areas where the rioting has been rife, report a small turnover, while the wholesale houses continue to suffer from the boycotting of Belfast goods, which has, however, by no means curtailed their activities, as they do a large business with unaffected districts.

Mr. Huston Lancashire, J.P., pharmaceutical chemist, Ballymena, and chairman of the urban council, presided at a meeting in that town on September 3, called for the purpose of forming a Protection Committee in the event of disturbances. A committee representative of all classes was formed, including Mr. Lancashire, under whose signature an appeal has been issued to the townspeople to preserve order and safeguard property.

"Une Ruse de Guerre."—Candidate, to examiner, who is not receiving very satisfactory answers (and shows it): "This is the subject I have always liked best, sir." He got through.

Registration of Trade-marks in Germany.—A translation of the German regulations for the registration of trade-marks has been forwarded to the Board of Trade by the British Commercial Commissioner at Berlin. A copy can be seen on application at the Inquiry Room, Department of Overseas Trade, 35 Old Queen Street, London, S.W. 1.

Scottish News.

Brevities.

It is understood that Rexall goods will soon be on sale in Boots' branches.

Three hundred replies were received in answer to a recent advertisement announcing the sale of a pharmacy.

A correspondent of the "Glasgow Record" complains about the high prices paid by the Government for artificial limbs.

Scottish chemists, a correspondent informs us, are increasingly disposed to favour a policy of co-operative buying.

Bisset & Gilmour, chemists and aerated-water manufacturers, Burntisland, have inaugurated a motor char-à-bancs service to the surrounding districts.

Mr. John Raffan, J.P., chemist and druggist, Stirling, occupied the presidential chair at the annual congress of the Sanitary Association held in Dumfries recently.

A patient who has been regularly paying her doctor 4s. for a small packet of crystals noticed on a recent visit that they were taken from a bag labelled "Glauber."

Instructions have been issued that tropical-diseases prescriptions presented to chemists by patients should be charged to the patient, who may then recover the amount through the local Pensions Committee. It is understood that negotiations with the Scottish Board of Health and the Regional Director in Edinburgh are in progress, so that chemists can have the prescriptions paid for in the same way as those of Insurance Committees.

Aberdeen.

Mr. Charles A. Michie, chemist and druggist, has acquired the business of Mr. William Giles, chemist and druggist, Crown Street, Aberdeen, who has retired after a business career extending over forty-eight years. During the war Mr. Michie was dispenser at No. 6 Casualty Clearing Station in France, and in 1918 he was awarded the Meritorious Service Medal. He has also had experience as an assistant with Smith & Govan, chemists, St. Andrews.

Edinburgh.

Mr. W. Robson, until recently representing a wholesale firm in Leeds, has joined the representative staff of Harkness, Beaumont & Co., Junction Bridge, Leith.

The office and warehouse staffs of T. & H. Smith, Ltd., presented a clock, on September 3, to Miss E. M. Robertson and Mr. A. C. Aitken on the occasion of their forthcoming marriage.

French News.

(From the "C. & D." Paris Correspondent.)

IMPORT AND EXPORT PROHIBITIONS.—The "Service des Dérogations aux Prohibitions d'Importation et d'Exportation," which was previously at 25 bis Rue de l'Université, Paris, has now been transferred to the Direction Générale des Douanes, Ministère des Finances, Rue de Rivoli, Porte D, Escalier N, 3me étage, No. 42.

EXPORT OF METHYLIC ALCOHOL AND ACETONE PROHIBITED.—A decree of August 12, published in the "Journal Officiel," August 19, prohibits the export from France of raw methylic alcohol (methylene), rectified methylic alcohol, and acetone. Licences will be granted, subject to certain conditions, by the Minister of Finance.

INTERIOR TAX ON COAL-TAR DERIVATIVES.—The "Journal Officiel" of August 19 contains a decree with regard to the method of collection of the interior tax of 20 frs. per hectolitre to be levied on benzol, benzine, toluene, and spirits derived from coal-tar, instituted by Article 105 of the law for the creation of new fiscal resources.

SODIUM BENZOATE AS PRESERVATIVE.—The Minister of Agriculture asked the advice of the Superior Council of Hygiene of France as to whether the addition of sodium benzoate (1 gramme per kilogramme, *i.e.* one-thousandth part) to jams, jellies, and marmalades, should be exceptionally sanctioned for this year only. The Council's report (drawn up by Dr. F. Bordas) is in the negative.

CHLOROPICRIN AS INSECTICIDE.—It has been found that chloropicrin is fatal to white ants (termites). These insect pests invaded St. Jean de Luz (the little town well known to all who winter at Biarritz) recently. M. Feytaud destroyed them by one application. The vapour of sixteen milligrammes of this chemical per litre of air will kill every termite in a room inside three hours, said M. Marchal, who reported on the matter recently to the Academy of Sciences.

HUNGARY WATER.—The "Commission de Vieux Paris," which studies the historical features of the French capital, was sorely puzzled as to the origin of the name of the "Passage de la Reine d'Hongrie." What Queen of Hungary was the old alley named after? No queen at all, M. Paul Boyer writes to the "Temps." The thoroughfare took its name, like many old streets, from a shop sign. A druggist's in this case. He sold the famous "Queen of Hungary Water" (we call it spirit of rosemary nowadays), so appreciated by ladies of bygone generations.

A NEW TAX.—The new "Tax on Turnover" (Impôt sur le chiffre d'affaires) comes into operation this month, and the stationers are doing a flourishing business in the sale of the necessary "declaration" books. The tax is retrospective from July 1, and the declaration of total daily receipts for July and August has to be handed in this month. It has at least the merit of simplicity, consisting, as it does, in the declaration of all sums received during the twenty-four hours for sales, etc., which will be taxed at the rate of 1.10 frs. per 100 frs. (1,1 per cent.). "You can declare what you like—for the moment," naively remarked the junior taxgatherer, as he handed in the notice. "We haven't the right to compel you to produce your books"—and he smiled—"at least, not yet."

VICHY SALTS.—M. Antonin Mallat's thesis on Vichy salts, which he presented to the University of Paris as candidate for the Doctorate of Pharmacy, commences with a few figures. In 1910, he tells us, the "Fermiers des sources d'Etat" (the company which "forms" the State springs at this popular watering-place) extracted enough salts to give 109,980 kilos. (about 110 tons) of natural Vichy salts, after saturation by the free carbonic acid of the Puits-Carré. Of these salts 2,421 kilos. (nearly 2½ tons) was used to make 84,745 kilos. of Vichy pastilles, sold in half-pound packages, oval boxes of seventy or twenty-eight lozenges, and packages of sixteen. The rest, 107,558 kilos., was utilised under the form of salts for beverages (in packets or bottles) or as tablets, the last named made by outsiders, not by the company itself.

AN OLD-TIME DOCTOR.—Since the death of M. Henri Cain, M. G. Lenôtre stands unrivalled in his entertaining evocations of the past. Under the title of "Hygiène" he publishes in a Parisian daily an amusing sketch of M. de l'Orme, doctor of King Louis XIII., and one of the most popular practitioners of Paris ten years after the death of our Queen Elizabeth. He "prescribed few drugs" (M. Lenôtre tells us), but his great panacea was his *bouillon rouge*. This "red soup" was composed of such reputed vegetable remedies as borage, bugloss, wild chicory, couch-grass, strawberry leaves, dandelion, and agrimony, "boiled for two hours in an iron pot, as this metal is detersive." It was drunk just before meals, and cured "fevers of all kinds, gravel and stone, pleurisy, and insomnia," not to speak of the "melancholy" and the "vapours" to which ladies of these early Stuart days were so subject. M. de l'Orme's horror of draughts was truly French; in fact, he held that fishes live for centuries (witness the carp) simply because under water there are none of those terrible *courants d'air* which even his modern countrymen seem to dread more than artillery or musketry.

Australasian News.

JAPANESE SHAVING-BRUSHES, wholly or partly manufactured in Japan, or exported from Japan, and containing or made from the hair of animals, may not be imported into New Zealand, because of the liability of such brushes to convey the infectious disease of anthrax.

FIRE.—The premises of Scott & Bowne, Ltd., manufacturing chemists, 483 Kent Street, Sydney, were burnt out recently. The machinery has, however, been preserved practically intact. Large stocks of cod-liver oil are held in bond, but there will be some delay before manufacturing can re-commence.

CROWDED COLLEGES.—It is not only in Great Britain that crowded colleges of pharmacy are to be found. For the same reason—accumulations of war-time—the preliminary registrations have increased greatly in New South Wales and South Australia. A complaint was made by a chemist at a meeting of the Pharmacy Board of New South Wales that his apprentice was attending classes every morning in the week except two, and now has to attend practical chemistry on two afternoons a week, because of the crowded state of the University. The Melbourne College of Pharmacy is to be extended by enlarging the laboratory.

N.Z. SCHOOL OF PHARMACY.—One of the subjects upon which agreement was reached at the recent conference of the Pharmaceutical Society of New Zealand was the necessity of founding a school of pharmacy so as to insure adequate training for students of pharmacy. Definite promises of support were received. The Manawatu Section has already offered 50*l.*, and another 10*l.* subscription was promised. The Pharmacy Board has 1,000*l.* in hand that could be used for the purpose. It was finally carried that a college should be established at Wellington, with compulsory attendance. At first a small building with two teachers will be equipped.

TRADE-MARK CASE.—In the Third Civil Court of Brisbane, Mr. Justice Mann set aside the trade-mark registration of the Brisbane Soap Co., of a mark representing water being spouted by a mother elephant over a baby elephant, the latter being in a tub. A. & F. Pears, Ltd., soap manufacturers, of London, had appealed against the registration on the ground that the mark was designed similarly to Pears' trade-mark, generally known as "You Dirty Boy!" and that consequently a probability existed of confusion. Mr. Justice Mann remarked that if no intent to deceive existed it was hard to understand why one trade-mark was designed like another.

FELTON, GRIMWADE & CO. PTY., LTD., has been registered with an authorised capital of 500,000*l.* to take over the business of manufacturing chemists and wholesale druggists as carried on by Felton, Grimwade & Co., Melbourne. The directors are Harold W. Grimwade, Edward Norton Grimwade, and Wilfred Russell Grimwade. Two subsidiary companies have also been registered—namely, Felton, Grimwade Scientific Instruments Co. Pty., Ltd., with an authorised capital of 30,000*l.*, to take over the business of scientific instruments manufacturers. This branch of the business was established during the period of the war for the purpose of supplying Australian requirements in the matter of surgical and scientific apparatus previously very largely obtained from Germany, and enabled the firm to supply the A.I.F. and technical schools and colleges in Australia with necessary equipment otherwise unobtainable. The products of this company will be wholly distributed by the parent company. Felton, Grimwade Dental Pty. Co., Ltd., also with an authorised capital of 30,000*l.*, the other subsidiary company, has been formed to take over the dental supplies branch of the original business. This in future will be conducted as an entirely separate business, with a separate clerical staff, and separately housed. The original proprietors retained the whole of the issued shares of the two subsidiary companies, and the directorate of both is the same as that of the parent company.

Colonial and Foreign News.

JAVA OPIUM.—In consequence of various difficulties, especially the want of labour, the opium monopoly factory is now unable to supply the necessary number of tubes to the régie. It has been decided to restrict the sale of tubes containing half a mata to the five Western residencies, and to suspend the sale in the remainder of Java.

ARTIFICIAL SWEETENING SUBSTANCES IN AUSTRIA.—The licence and consumption tax on artificial sweetening substances in Austria has been increased from 3 kronen to 12 kronen per kilo. per saccharometric degree, while as from August 5 last Austrian Custom duties when paid in bank notes must be paid at twenty-five times the tariff rate instead of twenty times as heretofore.

"205 BAYER" is a new trypanocide manufactured by the Bayer Co., which has been tested in the Imperial Health Institute (bacteriological department), and is stated to have exhibited a very high degree of activity. With regard to its chemical composition, no disclosure is being made "owing to the absolute absence of any legal protection of the German chemical industry in relation to the formerly enemy countries."

RUSSIAN PLATINUM PRODUCTION.—In March 1919 the Government of Omsk assumed the control of all sales of platinum, requiring the producers to sell the unrefined metal to the Government refinery, half the value being paid in Russian money at the time of delivery, and the other half to be paid when the metal had been sold by the Government. According to estimates submitted by May 1919 by the platinum refinery in Ekaterinburg, it required a period of six weeks to produce pure platinum from 220 kilos. of crude metal, the cost of refining this quantity amounting to 150,000 roubles, the amount of pure platinum obtained being 176 kilos. The sale price for 500 grams of refined platinum at that time was fixed at 14,630 roubles. With the occupation of the Ural districts by the Government of the Soviets in July and August of last year, the control of the Government of Omsk over the production and sale of platinum has been considerably curtailed.

PHARMACY IN HELIGOLAND.—The following is the text of a notice that has been issued regarding Heligoland:

PRUSSIA.

Official Notice regarding the Pharmacy in Heligoland.

Herewith competitors for the concession for the personal, non-saleable and non-inheritable working of the pharmacy in Heligoland are required to report to me within six weeks, sending in at the same time an account of their career and their personal documents. The new concessionnaire will be obliged, if required to do so, to purchase the fittings of the pharmacy and the stock of goods held at the time of taking over the business, at a price representing their real actual value.

Attention is drawn to the fact that an alteration of the pharmacy laws, etc., is contemplated. Further, I wish to remark that, according to the provisions of the decree of June 30, 1894, the holder of the concession is not permitted to propose a successor.

Schleswig, August 26, 1920. Der Regierungspräsident.

[The present holder (if still alive) of the concession of the pharmacy on Heligoland is, according to the Pharm. Kal. 1920, a Herr W. Maull, who passed his State examination in 1894.—EDITOR.]

AN ADVERTISEMENT APPFARS in "The Morning Post" of September 9 asking for six male patients for submission to "a simple and pleasant disinfectant process, without quinine or injections" for the relief of malaria.

ANTISCORBUTIC VITAMINE.—Canned tomato, Hess says, is the most serviceable antiscorbutic for artificially fed infants. It is well borne, comparatively inexpensive, and is available. Canned tomato may be obtained from a nutritional standpoint, as a palatable solution of the three vitamines. Hess recommends it unreservedly in doses of 1 oz. a day. By substituting it for orange-juice a great saving has resulted.—"New York Journal of Medicine."

Confectioners' Exhibition.

The twenty-fourth annual "Confectioners', Bakers', and Allied Traders' Exhibition and Market" opened at the Royal Agricultural Hall, London, N., on September 4, and closes on September 10. This exhibition is the largest of its kind ever held. The whole of the Hall and its annexes are fully occupied with a display of products, machinery and appliances, labour-saving devices being one of the outstanding features. Several exhibitors are showing goods of interest to the drug-trade, the following (arranged alphabetically) being among those that we visited:

The American Cockroach and Blackbeetle Solvent Co., who claim to be the largest firm of vermin destroyers in the world, are exhibiting non-poisonous vermin-destroyers of every description, and the company offer to give 100*l.* to any charity if Solventum, when properly applied, fails to touch the worst-infested areas. The Anglo-American Agency are agents for Stuart's condensed food-flavourings, of which there are thirty-five different varieties. These flavourings are packed in collapsible tubes and sealed with a screwed eye. The flavouring capacity is equal to about five times its volume of ordinary essence. Food-colourings and rolling massage-cream are also to be seen on the stand.

Blackwell, Hayes & Co., Ltd., have on show flavouring essences in paste form which mix readily without specking, and, being non-spirituous, are inexpensive. Ice-cream powders are obtainable in all flavours and only require the addition of milk. Flavocols are quite a novelty in the art of colouring and flavouring. Sufficient of a flavocol is added to a mixture to give it the correct colour, and the flavouring automatically adjusts itself to the strength required. The company specialise in edible colours, some of which are unobtainable elsewhere; and their cream-of-tartar substitute is another preparation of which the company is proud. The British Diamalt Co. are the manufacturers of extract of malt of fine quality, which they supply plain, with cod-liver oil or with paraffin, in bulk, jars, or tins. Burton, Son & Sanders, Ltd., are exhibiting flavouring essences and colours.

Calders Yeast Co., Ltd., are showing both malt-and-oil and plain malt extract. The Cellophane Company's "cellophane" is an ideal wrapping for drugs, tablets, etc. It may be obtained coloured, colourless, or embossed. The Changeable Sign Co., Ltd., patentees and manufacturers of changeable letter signs, have their stand near the entrance of the exhibition. As this type of sign is becoming more and more popular, a slight description will perhaps be useful. The sign is made of grooved board covered with cloth (stock colours are black, blue, green, and maroon). The letters are made of ivory-like material or enamelled metal, with a projection at the back. They are pushed in from the front, and can be removed individually without affecting other letters in the line. The adjustment of the letters is perfect, and the letters will not slide nor fall out when the sign is overturned. The display of A. F. Corbett & Co. is a stand of stands, comprising shop-window fittings, plate-glass counters, and showcases.

Mr. E. Duncan Doring has a large range of glassware, including cachou bottles and tubes. The Eburite Paper Co., Ltd., have samples of all kinds of paper (waxed, greaseproof, corrugated, etc.), in coils or in reams.

Machinery exhibits take up a considerable amount of space on the ground floor; the most interesting stand to members of the drug-trade is that of The Forgrove Machinery Co., Ltd., Leeds, makers of all types of automatic machinery for wrapping, labelling, counting, etc. The machines are well made and well finished. The Four Oaks Spraying Machine Co.'s spraying machines effect a great saving of labour, no scaffolding being required when using them.

The Hull Oil Manufacturing Co., Ltd., whose stand is in the King Edward's Hall, have samples of edible oils, including coconut, cottonseed, peach-kernel, and ground-nut. An essential-oil and flavouring exhibit which is well worth a visit is that of The Lion Essence & Chemical Co., Ltd. The samples of various oils and essences, in both liquid and powder form, are well arranged. The London Essence Co., Ltd., exhibit fruit extracts, essences, and essential oils. The Manchester Chemical Co., Ltd., specialise in flavouring essences, acid phosphates, and malt extract. The Milroy Chemical Co., Ltd., are specialists in colourings in addition to essential oils. An excellent sample of vanilla is to be seen on the stand.

The stand of The National Cash Register Co., Ltd., is covered with the latest models of cash registers and credit files, obtainable with oak or mahogany finish to match the shop-fittings. Rose Bros. (Gainsborough), Ltd., are the manufacturers of "Pyno" pastes, samples of which may be inspected at the stand. Paste No. 5 is a special one for labelling tins, and there are varieties designed for box-making and other uses.

R. A. Stephenson, Ltd., represented by one of the directors, Mr. G. H. Walker, are showing their automatic gummed-tape machines, which both damp and print the tape at the same time. The type spools are interchangeable so that the wording can be altered as often as desired. The tapes are obtainable in all colours. Venesta, Ltd., are exhibiting all kinds of Venesta plywood trays. The Whate Patent Steam Injectors, Ltd., in addition to exhibiting steam injectors and similar apparatus, have on view a number of continuous-pressure spraying machines which may be used for limewashing, painting, distempering, and disinfecting.

Other exhibitors whose stands are worth a visit are Barron's (Leicester), Ltd. (machinery); A. Bellamy & Co., Ltd. (essences); The British Malt Products Co.; Eggo, Ltd.; Egg Products, Ltd.; J. Gosheron & Co. (gummed tapes); T. Keane & Son, Ltd. (leather goods); H. C. Slingsby (trucks, carriers); The Southern Cotton Oil Co. of Great Britain, Ltd.; W. M. Still & Sons, Ltd. (stills); Tan-Sad Works (chairs); H. Thompson & Co. (essences).

Coming Events.

Sunday, September 12.

National Drug and Chemical Union, Manchester Branch. Ramble to Glossop. Meet at London Road Station 10.15 A.M.

Monday, September 13.

International Dental Exhibition, Royal Horticultural Hall, Vincent Square, Westminster, London, S.W., at 9.30. Exhibition opens and remains open until 6 P.M. Friday.

National Drug and Chemical Union (Manchester Branch), Clarion Café. Monthly meeting. Mr. B. G. Hough, F.C.S., on "Evolution."

Tuesday, September 14.

Southport Pharmacists' Association. Dr. Cronin Lowe on "Acquired Immunity."

Thursday, September 16.

Chemists' Dental Society, 17 Bloomsbury Square, London, W.C., at 4.30 P.M. Annual meeting of members. The Council will meet before and after the annual meeting for the purpose of electing officers.

London Chemists' Golfing Society, Enfield. Hepburn Shield. 18 holes, medal play.

A Licence, under Section 20 of the Companies (Consolidation) Act, 1908, has been issued by the Board of Trade to the British Leather Manufacturers' Research Association under the conditions laid down in the Government scheme for the encouragement of industrial research. The secretary of this Association is Miss M. A. Stevens, 26 St. Thomas' Street, London, S.E. 1.

Zirconium and Radiography.—A writer in the current issue of "The World's Work" deals with the uses of zirconium as a substitute for various other metals. In America the oxide has been used as a substitute for bismuth subnitrate, which is more expensive and during the war was difficult to obtain, to render a meal opaque before an *x*-ray examination. For this purpose it is sold under the proprietary name "Kontrastin." In this country, however, barium sulphate is preferred.

Legal Reports.

Lemon Squash Case.—At Richmond (Surrey) Police Court, on September 2, Henry W. and Charles H. Durbridge, trading at 210-212 Sandycombe Road, as Durbridge Bros., were jointly summoned, under the Sale of Food and Drugs Acts, for selling to the prejudice of the purchaser lemon squash which was not of the substance and quality demanded, but was adulterated with phosphoric acid to the extent of 1.2 per cent. and of salicylic acid to the extent of 0.15 per cent., and was essentially a sweetened, flavoured, coloured, and preserved solution of phosphoric acid. Defendants pleaded "Not guilty." Mr. Thomas, appearing for the Surrey County Council, said that the defendant C. H. Durbridge had served him with a notice of his intention to rely upon a warranty as his defence. That notice was signed "C. H. Durbridge, Durbridge Bros.," and with it he had sent a copy of the invoice in which the liquid in question was described as "one dozen Gould bottles lemon squash." He submitted that the warranty was not a good one, and, if it were, that it could only be a protection for C. H. Durbridge. In order to get at the real offenders in the case, he was bound to raise certain technical points against the warranty, so that if steps were taken against the warrantors they could not raise those technicalities against him (Mr. Thomas). His contention as regarded the warranty was that they could not have a warranty by label only, but that there must be evidence of intention between the parties that a warranty should be given. He noticed that on the label was printed "Absolutely pure, unadulterated lemon squash." The Mayor said the Bench considered that the warranty was intended to be signed by both defendants and for the firm, so they would regard it as applying to both. Evidence of purchase and of analysis having been given, Mr. C. H. Durbridge said that he purchased the lemon squash in the ordinary course of business through Messrs. Kinghams, Brentford. He believed it to be quite pure. It had never been tampered with. By Mr. Thomas: When he made the bargain with the traveller, there was no stipulation made about a warranty to accompany the lemon squash, as it was not usual to make such a stipulation with every article bought. The Mayor said that the invoice described the liquid as lemon squash and the label on the bottle described it as absolutely pure. Taking both circumstances into consideration, they had decided to dismiss the cases against the defendants, but they hoped the matter would be taken further. Mr. Thomas then applied for a summons against Messrs. Kinghams, for supplying a false warranty, and two against H. Gould, Ltd., for aiding and abetting with the false warranty and for applying a false trade description on the label. Both summonses were granted.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

H. Slater, Ltd. (P.C.).—Capital, 500*l*. Objects: To take over the business of a drug-store carried on by H. Slater at 75 Johnston Street, Blackburn, as "Horace Slater." The permanent directors are: H. and Maud Slater, 75 Johnston Street, Blackburn. R.O.: 75 Johnston Street, Blackburn.

Derulis Co., Ltd. (P.C.).—Capital, 2,100*l*. Objects: To carry on the business of manufacturers of and dealers in all kinds of toilet requisites, pomade and perfumes, pharmaceutical, manufacturing and general chemists and druggists, etc. Solicitor: J. W. Belsey, 13 St. Swithin's Lane, London, E.C.

Clover Tregent & Forwood, Ltd. (P.C.).—Capital, 125,000*l*. Objects: To take over the business of paint manufacturers carried on in Liverpool as "Clover Mathers & Co.," the similar business carried on in Liverpool as "Taylor Tregent & Co.," and the business of manufacturers of and dealers in Eureka anti-corrosive and anti-fouling compositions carried on in Liverpool by Forwood & Sellar.

Regalia Photographies, Ltd. (P.C.).—Capital, 1,400*l*. Objects: To take over the business of manufacturers of photographic materials carried on by Ford & Thomas at 16 Warwick Street, W.1, as "Regalia Photographies," and to adopt an agreement with A. G. N. Ford, H. Thomas, and O. J. Oakshett. R.O.: 16 Warwick Street, Regent Street, London, W.

Abbey Co., Ltd. (P.C.).—Capital, 2,000*l*. Objects: To take over the business of manufacturers of and distributors of, agents for and dealers in toilet requisites, perfumes, and other chemical or medicinal preparations carried on by E. A. Chew and C. H. Abbey, at 4 Clerkenwell Green, E.C., as the "Abbey Toilet Supply Co." R.O.: 4 Clerkenwell Green, London, E.C.

L. H. Shaw & Co., Ltd. (P.C.).—Capital, 2,500*l*. Objects: To take over the business of a manufacturer and broker of, dealer in, and agent for boot and floor polishes, liquid and paste-metal polish, varnish stains, paints, varnishes, colours, chemicals, oils, and turpentine carried on by L. H. Shaw at 120 Oxford Road, Manchester, as "L. H. Shaw & Co." R.O.: 120 Oxford Road, Manchester.

Hadfield's Chemical Works, Ltd. (P.C.).—Capital, 30,000*l*. Objects: To take over the business of animal charcoal manufacturers carried on by Makin & Bancroft, Ltd., Weston, Lancs, as "Hadfield's Charcoal Works Co.," and to carry on the business of manufacturers of and dealers in charcoal, lime-burners, smelters, dealers in coke, fuel, artificial manures, chemicals, and products thereof, etc.

Robinson & Evans, Ltd. (P.C.).—Capital, 2,000*l*. Objects: To take over the business of colour merchants carried on at Manchester and elsewhere by J. A. Robinson and J. H. Evans as "Robinson & Evans," and to carry on the business of manufacturers of and dealers in colours, chemicals and chemical substances, etc. The first directors are: G. J. Ward, The Poplars, Stanley Road, Lytham; J. A. Robinson, Osborne House, Sandy Lane, Lower Darwen; and J. H. Evans, 20 Earnsdale Road, Darwen, Lancs. R.O.: 342 Deansgate, Manchester.

Incorporated Vermin Repression Society (word "Limited" being omitted from title by licence of the Board of Trade).—Registered as a company limited by guarantee, with 1,000 members, each liable for 1*l*. in the event of winding-up. The objects are: To repress noxious vermin, including rats, mice, sparrows, ticks, fleas, mosquitos, and flies and horticultural parasites. The Association will seek to attain its objects by obtaining an accurate knowledge of the birth, breeding, distribution, and life history of rats, flies, fleas, ticks, and other injurious vermin, paying special attention to the part played in vermin in disease causation. To ascertain, by research or otherwise, the best and most merciful lawful methods for the repression of vermin; to distribute literature, by the institution of lectures and by other educational methods, etc. The management is vested in a Central Executive Committee, the first members of which are: T. Mark Hovell, F.R.C.S., 105 Harley Street, W.; Colonel Sir Bruce Bruce-Porter, M.D., 6 Grosvenor Street, W.; Major Cecil Kennard; Major Harding Cox; Cuthbert James, M.P.; George Balfour, M.P.; Nathan Raw, M.D., M.P.; and A. E. Moore. Solicitor: F. C. T. Mortimer, 85 Hatton Garden, London, E.C.

B. Laporte, Ltd.—The thirteenth annual meeting was held at Luton on September 2, when Mr. B. Laporte (chairman and governing director) presided, and in moving the adoption of the report (*C. & D.*, September 4, p. 74) declaring a dividend of 22½ per cent., said they could expect as good or better things for the year just entered upon. To finish the programme of extension new capital is required, and the directors propose to lay before the shareholders a scheme which the chairman had no doubt would meet with strong support from their shareholders and friends.

Notes on Books.

"THE EVOLUTION OF THE DRAGON,"

says Dr. G. Elliot Smith, in his recently published book with this title, is the history of the search for the elixir of life. The dragon of mythology has come to be the symbol of almost every kind of evil, but Dr. Smith identifies it with "the Great Mother" who is at once the giver of life and the death-dealer, and who rejuvenated the aged king upon whose life the welfare of the world depended, by supplying him with the life-blood, to obtain which she had to slaughter mankind. She is thus both evil and good, the "Great Mother," the dread Snake, and the Goddess of War, wading in blood. But the Sun God would save a portion of mankind, and to this end he procured for her a drink like blood, from a red earth and barley, which was the elixir of life. This, one need hardly say, was in Egypt, in "the far backward and abysm of time," and one wonders whether the legend throws any light on the origin of the term *Sanguis Draconis*, as used in medicine. A passage in Hakluyt's "Voyages" confirms Wootton's statement that anciently the substance so called was believed to be veritably the congealed blood of the dragon crashed by the elephant, as described by Pliny, though it is clear that Pliny's dragon was only some huge python. Of course, the dragon being a poisonous beast, there is reason enough for its reputation in medicine quite apart from any presumption of this kind. A German writer quoted by Moncure Conway explains how "physic is produced from his poison, which he entirely consumes, and eats his own venomous tail. This must be accomplished by him in order to produce the noblest balm." In addition to its blood the dragon had in its head what Lyly calls a "precious gemme," the stone Draconites, of which Albertus tells us that it was "marvellous against poison and venom."

"IN THE WILDS OF SOUTH AMERICA"

is a fascinating title for a book, and Mr. Leo E. Miller's work so called does not disappoint the expectations it raises. The travels Mr. Miller records were made at different times and in various parts of the Continent. Altogether they covered a very large part of it; extending, in the Andean region, from the extreme north of Colombia to Tucuman in Argentina; on the Orinoco, from the mouth of the river to the "mountain island" of Duida near one of its principal sources; in British Guiana, along the whole course of the Demerara River; from Buenos Aires up the Parana and Paraguay Rivers into the Matto Grosso, and thence down the Gy-Parana and Madeira to the Amazon. The object of these journeys was mainly zoological, and Mr. Miller tells us comparatively little of the vegetable products of the country (he never mentions the cinchona, for instance); but the book has great scientific value, and here and there, as in the account given of the tonka bean, found in profusion in the Orinoco basin, it has a special interest for pharmacists. The descriptions given of the monstrous chain of the Andes and the neighbouring Cordilleras, of the vast forests of the Amazon and its tributaries, of the rivers themselves, especially those as yet imperfectly known, and of the still wild tribes of Indians (some of them belonging to the very lowest type of human beings, having apparently no conception of a deity), are the book's chief attraction to the writer. Mr. Miller gives anything but a roseate view of the interior of the continent, though he expresses a desire to revisit it. Evidently he regards the districts drained by the upper waters of the Amazon as absolutely unfit for occupation by the white man, and, to a great extent, for any sort of man. The climate is that of a hot-house, the storms of rain are torrential, and in the wet season the floods are enormous, the Gy-Parana sometimes increasing its width to something like 200 miles. The insect pests, the ants, the Maribundi wasps, the flies, fleas, and mosquitoes, make life almost unbearable; these and the vampire bats are indeed much more formidable than the jaguars, the alligators, and huge snakes (including the dreaded bushmaster), or any of the larger animal foes to be met with. As a set-off to these Mr. Miller found the human inhabitants of all but the still savage districts invariably kind, courteous, and hospitable.

THE STUDY OF PHENOLOGY,

or the time of the flowering of plants, presents us with many curious facts and not a few interesting problems. Sir Francis Darwin, in his recently published "Springtime, and other Essays" (John Murray, 1920), has some observations on the subject, and he concludes the volume with a table of the procession of the flowers as noted by himself between April 1 and August 21, 1917, compared with that given by Blomefield in his "Naturalist's Calendar." The spring of 1917 was an unusually cold one, and the dates in Darwin's table are later than those of Blomefield, which are *mean* dates. But temperature is not the only factor determining the time of flowering, and though ordinarily the order of appearance is the same year by year it is not invariably so, as the old adage about the oak and the ash testifies. It is doubtful whether the exceptions that occur can be completely accounted for by any scientific theory, and Sir Francis Darwin seems too positive in some of his statements. The time of flowering of any particular plant varies, too, more widely than Blomefield's observations would lead us to suppose. He gives February 2 as the latest date for mezereon, but it was considerably later this year, which is regarded as an unusually forward one. It may be so, generally speaking, but the snowdrop appeared nearly a month later than usual, and the crocus was unusually backward. Daffodils, on the other hand, were early, and ran the crocus closer than usual. Patmore abused his poetic licence when he said, "Primrose and violet bewildered wake, And deem 'tis time to flower!" There is no bewilderment. The three stages of formation, rest, development, which Sir Francis Darwin allows for, may be longer or shorter according to circumstances, but they are taken in an orderly manner. Flower names form the subject of one of the most interesting chapters in the book. Some of the explanations given are, however, questionable. Sir Francis does not profess to be a philologist, and he has relied too much on old sources. The derivation of the name *pink* from the German *Pfingst*, Pentecost, for instance, is now generally discredited. The statement that *mad*, a worm, is the root of *madder* is new to the writer, and in the absence of evidence doubtful. Sir Francis says it would be more applicable if *madder* meant vermilion, and so it would were vermilion cochineal, but what earthly connection has madder with worms? The adoption of *pool-rush* for the "incomprehensibly foolish" *bulrush* is a gratuitous error, the latter word being quite comprehensible to anybody familiar with the common use of *bull* to signify anything unusually large or stout; the place-name Bullhassocks, due to the huge tufts of grass and rushes in the neighbourhood, is a case in point. That *elder* means kindler is an almost equally baseless suggestion. The earlier forms of the name—*eller* and *ellen*—are still in local use, and are supposed to have some connection with *hole* and *hollow*, but this is as far as we can safely go. The other name of the *elder*, *bour-* or *bore-tree*, used to be attributed to its tube-like stem when the pith is out, but this is not now accepted as proved. *Herb paris* does not mean simply "the plant with a pair of leaves," but the herb of a pair—that is, of a betrothed couple; it refers, as Gerard says, to the way in which its four leaves are "directly set one against another in the manner of a Burgundian Cross or True-love knot." This is made plain by the alternative name *Herb True-love*.

"MY DIARIES,"

by Mr. Wilfrid Blunt, contains in Part 2 an interesting story of an Egyptian boy in his service at Shevkh Obeyd, who was bitten by a wolf in February 1901, and died, apparently of hydrophobia, some twelve days later, after treatment in the hospital at Cairo on the Pasteur system. Two days before his death the boy had a swelling in his throat and could neither eat nor drink, but what the other

symptoms were is not stated, except that the boy went "raving mad." If there were such a disease as lycanthropy this might have been so described, and though it was hydrophobia only, it appears to be a fact that this disease is more virulent when contracted from a wolf than when it follows from a dog-bite. Dr. Ruffer, a distinguished disciple of Pasteur, told Mr. Blunt that, though only about 13 per cent. of cases of dog-bite are followed by hydrophobia, the percentage is 60 or 70 in the case of wolf-bites. He seems to have added, however, that he thought the Pasteur treatment of more utility when the bite was that of a wolf or jackal, and to have been in doubt whether he should himself submit to the treatment, at least without first making his will, if bitten by a dog presumedly mad. The percentage of deaths from the treatment itself he gave as 2. Mr. Blunt, very characteristically, attributes the presence of hydrophobia in Egypt to our civilisation. Old travellers, he says, declare that it was unknown in that country in their days, and he suggests that it was "introduced with other Western diseases from Europe during the nineteenth century." Hydrophobia is, however, in no special sense a Western disease. It was evidently common enough in the ancient world, and Rhases and Avicenna, Arabian physicians practising in Baghdad, are among the more famous of the older writers upon it. Lycanthropy, of course, was not supposed to be always due to a bite, but a bite might and often did cause it, say the old writers on the subject. Probably the occurrence of hydrophobia as a result of such bites was the origin of the whole horrible superstition of were-wolves, who could change from man to wolf and back again. "It ariseth [says one] also as well from a Melancholly humour generated in Man, as from the bite of any *Woolf* . . . yet some, soaring higher, make it a sort of *madness*, though many will not admit it any Disease, but meerely by the force of this *Poyson*, or by a possession of the *Devil*." And again: "Some affected herewith do somewhat differ in their actions from what you have heard already described, not howling or running up and down like *VVoolfes*, or frequenting Graves, Churches, Churchyards, or Sepulchers, neither do they desire to hunt sheepe, or to raven any manner of way; But rather imitate the actions and customes of Dogs, imagining themselves to be really Dogs." The cure, he concludes, is "the same with that of the *Madd-Dogg*." There can be no doubt that the disease, too, was the same. Burton, who refers to Pliny, gives much the same account, and adds that Nebuchadnezzar, as some interpreters hold, was only troubled with this kind of madness.

A Defence of Cramming

is about the last thing one would expect to find in a manual for students, yet Dr. Kitson, Instructor in the University of Chicago, appears to defend it in his little book on "How to Use your Mind," the avowed object of which is to help "students and teachers in the administration of supervised study." True, he begins his defence by saying that, as a general practice, cramming is a dangerous and treacherous method of passing a course, but still it has some value "if it does not take the form of new acquisition of facts, but consists more of a manipulation of facts already learned," that is, as he afterwards explains, of reviewing and refreshing impressions already received in the course of faithful study: "it shows facts in perspective"; it "tunes up the entire mentality"; it gives "recency" to impressions. Obviously this, properly viewed, is not cramming at all, as the term is habitually used, and it seems a pity that it should have been employed here. To cram is precisely to stuff the memory with facts in as short a time as possible, not to review and systematise what has been already learned. Its essential character is seen in the old story of the man who said, in reply to his tutor's reproach for having failed to pass after being thoroughly well crammed, "Yes, by George, you crammed me so tight that I could get nothing out!" Cramming, in short, often defeats the very object with which it is practised; it is treacherous in every way, and as an educative method quite useless.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

German Neo-Salvarsan.—A Kimberley doctor, writing to the "South African Medical Record," says: "Are we going back to the pre-war state of mind, and allowing ourselves to be humbugged into the idea that German drugs are better than British, and that they should always be used in preference to those of British manufacture? The pushful Hun and his agents at any rate seem to expect this. I have before me a letter from a Johannesburg firm touting for a German neo-salvarsan, hinting that I had better order now or I may be unable to get a supply later on, and adding as a special 'inducement' that the price has been reduced from 21*s*. to 16*s*. 3*d*. per phial net cash."

Transvaal.

Nominations were recently called for to fill a vacancy in the Transvaal Pharmacy Board occasioned by the death of Mr. B. Owen Jones. Mr. Charles Keir was the only nominee, and was declared elected.

Personal.—Mr. W. A. J. Cameron, for many years secretary of the Transvaal Pharmacy Board, and now business manager and secretary of the South African Institute for Medical Research, Johannesburg, has been appointed by the Government a member of the Transvaal Pharmacy Board, vice Mr. W. Harvey resigned. Mr. Cameron took his seat for the first time at a special meeting held on August 6 and was cordially welcomed by the other members of the board.

Business Changes.

Allen & Lloyd, Ltd., chemists and mineral-water manufacturers, Aldershot, are opening a new branch at 252 High Street.

Hetherman & Co. Inc., brokers in Far Eastern produce, oils, and chemicals, have moved from 487 Broadway to larger and more centrally located offices at 50 Broad Street, New York City.

The business lately carried on by Mr. W. Starkey, chemist and druggist, at 24 High Street, Ironbridge, has been acquired as a branch of the business known as A. S. Kitching, Oakengates, and will be carried on under the management of Mr. C. F. Kitching, chemist and druggist.

The old-established business of Battley & Watts, which was acquired by Allen & Hanburys, Ltd., some years ago, has now been transferred from Wellclose Square owing to the lease of the premises having expired. In future the well-known "Battley" specialities will be manufactured at Allen & Hanburys' works at Bethnal Green.

South-Western Federation.—The South-Western Federation of Pharmaceutical Associations met at the Grand Hotel, Bristol, on September 1, the President (Mr. H. E. Matthews) in the chair. There were also present Messrs. P. F. Rowsell, W. T. Hall (Cornwall), W. H. Hill (Gloucester), H. R. Hoyles (Somerset), E. J. Hughes (Wilts), and J. D. Turney (Devon). A discussion took place on the scheme put forward by the Amalgamated Society, and resolutions were passed and ordered to be conveyed to the L.A.E. This was followed by a brief address by Mr. Rowsell on the inadequate profit on certain proprietary articles. Mr. Rowsell felt strongly that there should be a gross profit of not less than 25 per cent. of the selling price on all proprietary articles when bought in the smallest quantities. A resolution embracing this idea and dealing with some of the more flagrant exceptions was carried. At the meeting of the executive, Mr. Hall (Truro) and Mr. Haynes (Dorset) were elected Vice-Presidents of the Federation.

Recent Observations on Acetylsalicylic Acid.

METHODS OF CRYSTALLISATION.

WHEN aspirin was first issued on a commercial scale by Bayer it was placed on the market in the form of small crystalline needles, but after some time this form was abandoned and the product was supplied in small white scales. Several manufacturers who have undertaken the production of acetylsalicylic acid have found that the question of the crystallisation of this product presents difficulties, which induced G. Cappelli, of the Chemical Laboratory of the Italian Inspectorate of Military Hygiene, to investigate this subject. His results may be summarised in the following conclusions :

Chloroform.—Acetylsalicylic acid of 99.6 per cent. purity and melting-point 134.8°, on crystallising from a concentrated chloroformic solution, was found to have a melting-point 134.2°, with a content of 99.74 per cent. of pure substance. The product consists of long white needles, which are not very brilliant and are dissimilar to Bayer's aspirin.

Acetone and Alcohol.—Owing to the great solubility of acetylsalicylic acid in both of these solvents their use cannot be recommended, although crystallisation from acetone yields fine crystals.

Water.—Acetylsalicylic acid of 99.6 per cent. purity and melting-point 134.8° was used for preparing a concentrated solution in acetone, and also in alcohol, and this solution slowly poured into water, under agitation. The collected crystalline product consists chiefly of small brilliant white scales, very lustrous, in addition to small quantities of small white needles, and in appearance closely resembles the Bayer product. Although it is of 99.4 per cent. purity, its melting-point is not well defined, and ranges between 126° and 129.3°—*i.e.*, the melting-point of the crystallised product is some 6° lower than that of the crude product employed. In addition, this product after a few months contains traces of free salicylic acid and exhibits an acetic odour, even when kept with every care.

Benzol.—A concentrated solution of acetylsalicylic acid of 99.6 per cent. purity and melting-point 134.8° in boiling benzol was prepared, and the acid allowed slowly to crystallise out. The resulting product showed a very high degree of purity—99.82 per cent., melting-point of 134.8°—and exhibited a very marked resemblance to the Bayer product.

Carbon Tetrachloride.—Acetylsalicylic acid of 99.6 per cent. purity and a melting-point of 134.8° was dissolved in hot carbon tetrachloride and the concentrated solution allowed to crystallise slowly. The crystals obtained by this method also resembled those of the Bayer product, possessing a melting-point of 134.5° and 99.7 per cent. purity.

The author, based on the results of his investigations, recommends the use of benzol, or of carbon tetrachloride, as being the most suitable solvents for crystallisation; however, it is necessary to employ a very pure "crude" product, not containing any free salicylic acid (which, if present, must be removed by repeated recrystallisation), and to agitate slowly the solution during the process of crystallisation (Giorn. di Chimica Industriale de Applicata, No. 8, 1920).

MELTING-POINT QUESTIONS.

In connection with the determination of the melting-point of acetylsalicylic acid Dr. M. Auerbach reports an observation made in the course of a series of analyses of this preparation, supplied by three of Germany's leading manufactories on behalf of the Court of Arbitration of the Hamburg Association of Wholesale Drughouses. His results agreed with those obtained by another analytical chemist, with the sole exception that the melting-points determined by the latter differed by being lower by about 10° than those he was able to establish—viz. 132° to 134°. The German Pharmacopœia prescribes, in determining the melting-point of acetylsalicylic acid, that "the increase in temperature, beginning at about 10° below the melting-point of this product, shall be slowly raised; so that at least half a minute is required for each rise in temperature of 1°." The other chemist, wishing to be particularly careful, had begun to regulate the rise in temperature from 100°, and allowed one minute for every increase of 1°. Since acetylsalicylic acid slowly decomposes when exposed to a high temperature, the progressive decomposition naturally leads to a depression of the melting-point. By prolonging the time required for increasing the temperature, the melting-point was in every case depressed by about 10°. By maintaining this product at 124° for twenty-five minutes, and for forty-five minutes at a temperature not exceeding 115°, in both cases fusion of the acid occurred. These results were corroborated by tests carried out with pre-war samples of acetylsalicylic acid, and the author urges that the determination of the melting-point of acetylsalicylic acid should be performed as chemists are accustomed to work, and not to prolong the time of raising the temperature.

Having had occasion to analyse a considerable number of samples of acetylsalicylic acid during the war, G. Cappelli, of the Chemical Laboratory of the Italian Inspectorate of Military Hygiene, was struck by the fact that the melting-points differed greatly, of products found to be absolutely pure, and this observation applied equally to well-known brands (including one of British manufacture) and to the various lots prepared in the laboratory. In order to elucidate this remarkable absence of uniformity as regards melting-point, in products otherwise similar in every respect, Cappelli undertook a series of exhaustive experiments, which are fully described in the Giorn. di Chimica Industriale ed Applicata, No. 6, 1920.

Assuming that the presence of free salicylic acid might be responsible for the lower melting-point, he carried out a series of tests with mixtures of salicylic and acetylsalicylic acids. However, he found that it required a content of 4 per cent. of free salicylic acid to lower the melting-point by 3°, and of 17 per cent. to lower it by 9°. The results of some determinations of the melting-point of samples which had stood in an exsiccator for some time led the author to investigate the effect of the solvent used for crystallisation on the melting-point of the product.

A sample of 99.8 per cent. acetylsalicylic acid prepared in the laboratory, with a melting-point of 134.6°, was submitted to recrystallisation from the following varieties of solvents : Acetone-water ; alcohol-water ; benzol ; and carbon tetrachloride. The results are given in the following table :

Solvent	Melting-point (Hans Meyer)	Purity
Acetone and water ...	128.2°	99.87 per cent.
Alcohol and water...	129.3°	99.83 ,,
Benzol	132.7°	99.91 ,,
Carbon tetrachloride	133.7°	99.9 ,,

From these results it is apparent that the use of water in the process of crystallisation, in combination either with acetone or with alcohol, causes a considerable depression in the melting-point, whereas with anhydrous solvents—benzol and carbon tetrachloride—the depression is smaller. He now undertook a series of experiments to determine the absorption of water by acetylsalicylic acid, and its effect on the melting-point. A sample of acetylsalicylic acid, with a melting-point of 134.6°, after absorbing 1.7629 per cent. of its weight of water, showed a melting-point of 130.8° after drying in an exsiccator over sulphuric acid for twenty-four hours ; and this result was borne out by a large number of other tests, proving the depression of the melting-point resulting from the absorption of water by this product.

Cappelli maintains that the determination of the melting-point, which should be 135°, is the best criterion for the purity of the preparation, and that samples melting at temperatures between 124° and 130° do not meet the requirements of the various Pharmacopœias, since in time the water absorbed leads to a partial saponification.

JOHNSON & JORGENSEN, LTD., manufacturers and importers of glassware, Farringdon Street, London, E.C. 4, are erecting a new wharf and factory on the riverside at Charlton, S.E. 7.

Photography for Chemists.

A CORRESPONDENT (4/9), referring to a reply in the Miscellaneous Inquiries section (*C. & D.*, August 28, p. 76), writes: "For the pharmacist who has not taken up photography as a business adjunct before, the best motto is *Festina lente.* By starting with a small representative stock, and feeling his way gradually, he will soon see what his requirements will be, as photographic materials, like patent medicines, vary with districts, and one make of plates or papers is in great demand in one neighbourhood and hardly at all in another. It is not advisable to lay in a stock of cameras to commence with, as they run into money, and models vary from year to year; neither do mounts keep well except under very favourable conditions. The one thing it is wisest to go to a little expense at the outset is the dark room—so many pharmacists use any odd corner and work under difficulties, but if there is a prospect of acquiring considerable business, it is best to fit the dark room up well at first; if a room with a window is available have a false window-frame made, covered with ruby fabric (ruby glass being scarce now), to open and shut, so that the light can be white or red, or if electricity is fitted have a ruby and a white lamp with thumb-switches. But do not be afraid of plenty of red light, so long as it is non-actinic; it is miserable to work in semi-darkness. To test the light in the dark room place a plate in a dark slide; half open the shutter, expose to the ruby light for some minutes, and develop. If a sink and water-tap can be included your dark room is nearly perfect. The popular sizes of photographs for amateurs at present seem to be the V.P.K. $2\frac{1}{2}$ by $1\frac{5}{8}$, No. 2 Brownie $3\frac{1}{2}$ by $2\frac{1}{2}$, and $\frac{1}{4}$-plate $3\frac{1}{4}$ by $4\frac{1}{4}$, while the 2A Brownie $4\frac{1}{4}$ by $2\frac{1}{2}$ is also coming into favour. For stock of materials the appended list is a minimum to start with: goods are invoiced at retail prices, and discounts are 25 per cent. off plates and $33\frac{1}{3}$ per cent. off papers and most sundries, so that averaging the discount at 30 per cent. it means an outlay of ten guineas. A good selection of showcards will always be sent by photo dealers with an opening order. Developing and toning and fixing solutions can be made by the pharmacist, good and reliable formulas being given by all plate-makers in their instructions. Solutions are best made in Winchester quarts, and bottled in ordinary 6-oz. poisons or other bottles available; for amateurs, hydroquinone or metolquinol is the most suitable, as neither stains the fingers like pyro. Probably all the chemicals will be in stock, but the following may be required as outside the range of ordinary pharmacy: Gold chloride, hydroquinone, metol, potass. metasulph., sod. carb. cryst., sod. sulphis, and soda caustic. Hypo can be bought from the drug house and put up in 1-lb. bags to retail at $7\frac{1}{2}d.$, or bought packed in cartons to sell at $9d.$ Mounts should be stocked in numbered boxes, and a book or album instituted with a sample of each numbered to correspond and priced, so that the customer may be shown the range without having to pull down all the stock; slip-in mounts are generally asked for. Developing and printing customers' photographs constitutes another aspect of the photographic trade, which is perhaps not quite so pleasant or profitable as the sale of materials, but, as with drugs and dispensing, the pharmacist cannot undertake one without the other. Although roll films are ideal from an amateur's point of view (in that he can load them in daylight, they are easy to carry, and there is nothing to do but pull the trigger and send them to be finished off), it is this same simplicity that probably leads to the fact that nine-tenths of the films exposed are wasted and not worth printing, as the operator takes no consideration of lighting, time of day, arrangement of subject, etc., all of which are necessary to get successful pictures. However, this is not the pharmacist's responsibility, although he can help with judicious remarks; but having received the exposed film he has to determine whether he shall do the work himself or send it away. If possible he should make an effort to do it on the premises, as although in theory films are developed, printed, and returned in forty-eight hours, in practice it rarely happens, and nothing is more annoying, to both the retailer and the customer, than for the latter to call in day after day for photographs that have not come to hand. Where the amount of work is not large the films can be developed one at a time, rinsed in water, dropped in a bowl of hypo and left to fix; hypo is cheaper than time, so it is best not to be too sparing with it. Prints are often done on gaslight paper, as it is quicker and the results are more even than is the case with P.O.P.; prints are developed with M.Q. and fixed in acid hypo. Other sundries, such as print-trimmers, masks, vignettes, and so on, can be added as required, and goods wanted promptly can be obtained from the sundries house on the usual daily order."

			£	s.	d.
$\frac{1}{4}$	doz.	Dark-room lamps... ... ... at 2*s.* each	0	6	0
$\frac{1}{6}$	,,	,, ,, ... ,, 3*s.* 3*d.*	0	6	6
$\frac{1}{12}$	,,	,, ,, ... ,, 4*s.* 6*d.*	0	4	6
$\frac{1}{2}$	,,	Xylonite dishes, $3\frac{1}{4}\times2\frac{1}{2}$ ... ... ,, 8*d.*	0	4	0
$\frac{1}{2}$	,,	,, ,, $\frac{1}{4}$-pl. ... ... ,, 10*d.*	0	5	0
$\frac{1}{4}$	,,	,, ,, $\frac{1}{2}$-pl. ... ... ,, 1*s.* 4*d.*	0	4	0
$\frac{1}{4}$	,,	Porcelain ,, $\frac{1}{4}$-pl. ... ... ,, 2*s.* 3*d.*	0	6	9
$\frac{1}{6}$	,,	Washing tanks and rack, $\frac{1}{4}$-pl.... ,, 3*s.*	0	6	0
$\frac{1}{4}$	,,	Printing frames, $3\frac{1}{2}\times2\frac{1}{2}$ ... ,, 1*s.* 6*d.*	0	4	6
$\frac{1}{4}$	,,	,, ,, $\frac{1}{4}$-pl. ... ... ,, 1*s.* 8*d.*	0	5	0
3	,,	Slip-in mounts, $3\frac{1}{2}\times2\frac{1}{2}$ ... ... ,, 1*s.* 6*d.* doz.	0	4	6
3	,,	,, ,, $\frac{1}{4}$-pl. ... ... ,, 2*s.* ,,	0	6	0
$\frac{1}{3}$	,,	Ilford Manuals ... ... ,, 1*s.* 6*d.* each	0	4	6
1	,,	M.Q. developing powders ... ,, 4*s.* doz.	0	4	0
1	,,	Toning and fixing powders ... ,, 4*s.* ,,	0	4	0
$\frac{1}{12}$	,,	No. 2 Brownie camera ... ... ,, 18*s.* 6*d.* each	0	18	6
$\frac{1}{2}$	,,	packets $\frac{1}{4}$-plates, assorted ... ,, 3*s.* 6*d.*	1	1	0
$\frac{1}{2}$	,,	,, ,, ,, ... ,, 1*s.* 10*d.*	0	11	0
1	,,	Self-toning paper, ,, $2\frac{1}{2}\times2\frac{1}{2}$,, 8*d.*	0	8	0
1	,,	,, ,, ,, $3\frac{1}{2}\times2\frac{1}{2}$,, 8*d.*	0	8	0
1	,,	,, ,, ,, $\frac{1}{4}$-pl. ,, 8*d.*	0	8	0
1	,,	,, ,, ,, $\frac{1}{4}$-pl. ,, 1*s.* 3*d.*	0	15	0
1	,,	,, postcards ... ... ,, 1*s.* 6*d.*	0	18	0
1	,,	P.O.P. papers, assorted, $2\frac{1}{2}\times2\frac{1}{2}$,, 8*d.*	0	8	0
1	,,	,, ,, ,, $3\frac{1}{2}\times2\frac{1}{2}$,, 8*d.*	0	8	0
1	,,	,, ,, ,, $\frac{1}{4}$-pl. ,, 8*d.*	0	8	0
1	,,	,, ,, ,, $\frac{1}{4}$-pl. ,, 1*s.* 3*d.*	0	15	0
1	,,	,, postcards... ... ... ,, 9*d.*	0	9	0
1	,,	Gaslight paper, assorted, $2\frac{1}{2}\times2\frac{1}{2}$,, 8*d.*	0	8	0
1	,,	,, ,, ,, $3\frac{1}{2}\times2\frac{1}{2}$,, 8*d.*	0	8	0
1	,,	,, ,, ,, $\frac{1}{4}$-pl. ,, 8*d.*	0	8	0
1	,,	,, ,, ,, $\frac{1}{4}$-pl. ,, 1*s.* 3*d.*	0	15	0
$\frac{1}{3}$	,,	V.P.K. films, $2\frac{1}{2}\times1\frac{5}{8}$ ... ... ,, 1*s.* 3*d.*	0	7	6
$\frac{1}{2}$	,,	No. 1 Brownie films, $2\frac{1}{2}\times2\frac{1}{4}$ ... ,, 1*s.*	0	6	0
$\frac{1}{2}$	,,	No. 2 ,, ,, $3\frac{1}{2}\times2\frac{1}{2}$ ... ,, 1*s.* 3*d.*	0	7	6
$\frac{1}{4}$	,,	No. 2A ,, ,, $4\frac{1}{4}\times2\frac{1}{2}$ ... ,, 1*s.* 8*d.*	0	5	0
$\frac{1}{6}$	,,	No. 3 F.P.K. films, $\frac{1}{4}$-pl. ... ,, 2*s.* 3*d.*	0	4	6
			15	0	3
		Average discount of 30 %.	4	10	0
		Total outlay	£10	10	3

At the Counter.

AIMLESS LEGS.—The following letter has been received by a Volksrust chemist from an "educated" native: "Dear Friend,—Receive this paper which stating my bad health. My health is absolutely bad. The first point is the cough. The levers on the right hand side are altogether spoilt. The stomach is divided into two parts, the backbone and the aimless legs are all in pains. Try and see if you can find medicine concerning to those points, especially the medicine for the cough and the other for anointing the pains. Allow me to end with best regards."

HEREDITARY DISPENSING.—The following has been received by a Bombay firm:

SIRS,—With reference to your advertisement in the paper for cemist assistent I anticipate the fulfilment of the vacancy myself. I am matriculated, married and nineteen years old, speak and rite English properly. As you do not want a qualified man I can suit you, because my father kept a Epsom salt store and was agent for peppermint, so as most doctors pricriptions are made of this, there can be no question of compunding mistakes. I will take any salary you offer provided it is very substanshal and hoping for many years your firm will be connected with me. Give me 3 days notice so that I can get some European cloths made. Yours most friendly welcome.

Personalities.

Mr. Herbert Skinner, Ph.C., member of the Council of the Pharmaceutical Society of Great Britain, is at present in Lucerne.

Sir Richard Cooper, Bart., M.P., has presented a reredos of Staffordshire alabaster to St. Mary's Church, Lichfield, in memory of his late parents.

Dr. G. C. Simpson, F.R.S., commenced his duties as director of the Meteorological Office of the Air Ministry, in succession to Sir Napier Shaw, on September 6.

Mr. Georges Marius Bresillon, director of the Anglo-French Drug Co., Ltd., has received the sanction of the Home Secretary to use the name of Georges Marius Roure.

Mr. Frederick Bromwich, principal representative in this country of Howards & Sons, Ltd., has had a serious breakdown, and is making a voyage to South America for the benefit of his health.

Mr. George Foster, chemist and druggist, Burnley, who was in business in Yorkshire Street for fifty-nine years, has just attained his eighty-second year of life. Mr. Foster retired two years ago.

Mr. and Mrs. Edwin Midwood, Liversedge, celebrated their silver wedding on September 4. Mr. Midwood, who passed the Qualifying examination in 1893, followed his father in business at Liversedge.

Mr. Caswell A. Mayo, of the William S. Merrell Chemical Co., has been appointed dean of the Queen City College of Pharmacy, Cincinnati, U.S.A. Mr. Mayo is an ex-president of the American Pharmaceutical Association.

It is announced that Sir Jesse Boot, Bart., is to receive the honorary freedom of Nottingham. Sir Jesse Boot is giving a war memorial to Nottingham, which is to include a park and a campanile 200 feet high with a carillon of bells.

Professor John Bretland Farmer, D.Sc., M.A., F.R.S., Imperial College of Science and Technology, has been appointed a member of the Advisory Council to the Committee of the Privy Council for Scientific and Industrial Research.

Mr. Thomas Lakeman, formerly representative in Australasia and New Zealand for several pharmaceutical and chemical houses, who has been living in retirement in this country, has decided to return to Sydney, as the climate here does not suit his health.

Mr. Chas. L. Huisking, president of Chas. L. Huisking, Inc., of New York, is expected to arrive in London about September 25, and will be here for about two weeks only. His address will be Chas. L. Huisking, Ltd., 47 Lime Street, London, E.C. 3.

Mr. P. D. G. Gain, who is well acquainted with the drug-trade and the medical profession in the Far East, is shortly proceeding there on behalf of Stafford Allen & Sons, Ltd. Mr. Gain has joined Tyler Bros., who have the sole representation of Stafford Allen & Sons in the East.

Mr. Frederick Boothroyd, Ph.C., 21 Chapel Street, Blackpool, has been selected as a candidate for the pending by-election in the Foxhall ward of Blackpool. Mr. Boothroyd has been in business in Blackpool for twenty years, and has done useful work as a member of the Blackpool Insurance Committee.

The staff of the Veno Drug Co., Ltd., Manchester, entertained Sir William and Lady Veno to dinner on September 3 to celebrate the return of Sir William from South Africa. Mr. George Spencer, on behalf of the staff, presented Sir William and Lady Veno with a pair of silver candelabra; and Sir William, in the course of his acknowledgment, emphasised the cordial relations existing between the management and the staff of the company.

Mr. G. M. Gales and Mr. W. C. Church have been appointed joint managing directors of Boots Pure Drug Co., Ltd., Nottingham. Mr. Gales, who is President of the L. K. Liggett Co., New York, a company operating the 216 retail shops owned by the United Drug Co., is returning to New York this week. Mr. Church has had a good deal of important executive experience in America and Canada, and since 1914 has been manager of the United Drug Co., Liverpool.

Among the British chemists who sailed to Montreal on September 9 are, in addition to those mentioned in the *C. & D.* of August 7 (p. 50), Mr. Jeffrey Poole (Birmingham) and Mr. F. D. Spencer (Stratford-on-Avon). The engagement for which, in particular, they booked passages is the annual convention at St. Louis of the United Drug Co., which has just taken over Boots' wholesale and retail companies. The number of chemists taking part in the convention is estimated at 5,000.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Chemical Composition of the Tubercle Bacillus.—By extracting 1,500 grams of dry tubercle bacilli with chloroform Goris (Un. Pharm.) succeeded in obtaining 7 grams of a new substance, to which he gives the name of hyalinol. On treating it with a boiling solution of sodium carbonate it yields an odour resembling that of jasmin, and on extracting this solution with ether and drying, a small residue is obtained possessing a jasmin-like odour. The same solution on decomposition with hydrochloric acid yields a mixture of crotonic and iso-crotonic acids, melting at 71° C.

Vitamines.—A paper on *The Preparation of a Stable Vitamine Product and its Value in Nutrition* was read recently before the biological division of the American Chemical Society. The authors prepared a vitamine product from corn, autolysed yeast, and orange-juice materials, which assured the presence of all three vitamines—antineuritic, antirachitic, and antiscorbutic. The authors attach most importance to the calcium and phosphorus in the product, and regard it as having a beneficial action on metabolism, particularly in bone and tooth formation. [An abstract of the Medical Research Committee's report on vitamines appeared in the *C. & D.*, February 14, p. 62.]

Eucalyptus Products.—At a meeting of the Royal Society of New South Wales recently, Messrs. H. G. Smith and A. R. Penfold read a paper on the manufacture of thymol, menthone, and menthol from eucalyptus oils. Work was undertaken in order to determine the molecular structure of piperitone, the peppermint ketone of eucalyptus oils. Piperitone is a menthenone with the carbonyl group in the 3 position. When oxidised with ferric chloride in the ordinary way 25 per cent. of thymol was produced. By reducing piperitone with hydrogen in the presence of a nickel catalyst an almost quantitative yield of menthone was obtained, which on further reduction with sodium in aqueous ether produced menthol. The abundance of piperitone obtainable from *Eucalyptus dives* makes this ketone probably the best source for the manufacture of thymol and menthone.

Hypoiodous Acid in Acid Medium.—The various methods hitherto published for the estimation of hypoiodous acid can only be applied to a neutral or alkaline solution, and in order to determine the amount of this acid present in an acid solution, V. Cofman (Bull. de la Soc. Chimique de France, vol. 27, p. 234, 1920) has elaborated a method which is based on the interaction between hypoiodous acid and phenol compounds, and which can be employed for its estimation in any medium. Potassium iodide is added to a measured amount of the solution to be assayed, and if not acid, the solution is rendered acid, whereupon the amount of iodine set free is titrated with solution of sodium thiosulphate. The same process is repeated, but prior to the addition of potassium iodide, an excess of phenol is added. The difference in the amount of iodine ascertained by means of both tests gives an indication of the weight of hypoiodous acid present, based on the calculation that two atoms of iodine correspond to one molecule of hypoiodous acid. The author also investigated the rate of decomposition of this acid.

Births.

AFFLECK.—At 26 Newry Park, Chester, on September 5, the wife of C. W. Affleck, chemist and druggist, of a son (John).

BUTLER.—On September 4, the wife of G. E. Butler, chemist and druggist, 41 Store Street, London, W.C. 1, of a daughter.

MARSDEN.—On September 1, the wife of G. H. Marsden, M.P.S., Hodnet, of a son.

STOTT.—On August 30, the wife of W. S. Stott, M.P.S., 11 Cornwallis Crescent, Clifton, Bristol, of a daughter.

Marriages.

CRACKNELL—PALMER.—At the Parish Church, Diss, on September 7, by the Rev. B. M. Downton, W. T. Cracknell to Winifred Lucy, daughter of Mr. John C. Palmer, drug-store proprietor, Mere Street.

GEDDES—SIMS.—At St. John's Church, Putney, S.W. 15, on September 8, E. H. Geddes (E. H. Geddes & Co., chemical and drug merchants, 49 Leadenhall Street, E.C. 3) to Lily, eldest daughter of Mr. S. Sims, Ouslow Villa, Putney.

HOOLE—HOBBS.—At St. John's Church, Tunbridge Wells, on September 4, by the Rev. Charles Story, Harold William, elder son of Mr. W. H. Hoole, Beckenham, (representative of S. Maw, Son & Sons, Ltd., in the South-Western Counties), to Constance Mary, only daughter of Mr. A. E. Hobbs, Ph.C., Tunbridge Wells.

HOYE—FEAKES.—At St. Barnabas' Church, Cambridge, on September 1, Samuel Hoye, chemist and druggist, to Alice Mabel, youngest daughter of the late Mr. H. Feakes, Vieux Moulin, Paris.

JOHNSON—BONE.—At St. John's Church, Leytonstone, London, E. 11, on August 25, Frederick Edward Johnson, F.C.S., chemist and druggist (Johnson & Swan, 542 High Road), to Helena, youngest daughter of Mr. H. S. Bone, Grove, Canterbury.

MASON—SLATTER.—At St. Mark's Church, Surbiton, on September 6, by the Rev. W. J. Margetson, M.A., John Howard Mason, M.P.S., second son of Mr. J. T. Mason, Stocksfield, Northumberland, to Winifred A. Slatter, only daughter of the late Mr. Edwin Slatter, "St. Winifred's," King Charles Road, Surbiton.

MAY—PALMER.—At the Parish Church, Diss, on September 7, by the Rev. B. M. Downton, George Leslie May, West Runton, to Catherine Doris, daughter of Mr. John C. Palmer, drug-store proprietor, Mere Street.

PEEBLES—BUIST.—At the Co-operative Hall, Springburn, Glasgow, on August 17, by the Rev. J. G. Duncan, William Peebles, M.P.S., to Nettie, eldest daughter of Mr. Robert Buist, Cowlairs.

WINFIELD—GILSON.—At the Parish Church, Bickenhill, on August 31, Frederick Butwell Winfield, M.A., M.R.C.S., L.R.C.P. (late major R.A.M.C.), son of Mr. G. F. Winfield, chemist and druggist, High Street, Solihull, Birmingham, to Mary Dorothea Gilson, M.B., Ch.B., daughter of Mr. R. Cary Gilson, head-master of King Edward's School, Birmingham.

Deaths.

BLAXTER.—At Sidmouth, on September 6, Mr. Augustus Pearce Blaxter, senior (late of "Homeleigh," Potters Bar), head of the firm of Barnett & Foster, Niagara Works, Eagle Wharf Road, London, N. 1, and Bolton, Lancs, aged seventy-nine.

CLARK.—At Norwich, on September 1, suddenly, the wife of Mr. Owen A. Clark, J.P., chemist and druggist (Nunn, Hinnell & Clark, chemists, 12 and 13 Abbeygate Street, Bury St. Edmunds), aged fifty-seven.

DONALDSON.—At Rockville, Larbert, on August 31, after a brief illness, Mr. Charles Glegg Donaldson, chemist and druggist, aged thirty-nine. Mr. Donaldson, who was a native of Larbert, served his apprenticeship with Mr. A. T. Pae, Stenhousemuir. He gained further experience with Cockburn & Co., Ltd., Glasgow, and qualified in 1907. Two years later he took over the business of Forbes & Ryder at Larbert, and built up a substantial trade. Mr. Donaldson was a member of the Stirling County Pharmaceutical Committee, and was very popular among his colleagues. He was unmarried.

EVANS.—At 72 North Side, Clapham Common, London, S.W. 4, on August 30, Mr. Alfred Philip Evans, chemist and druggist, proprietor of Foster & Dallas, chemists, 1 Lavender Hill, S.W. 11. Mr. Evans qualified in 1886. His only son was killed on active service in February 1918. He is survived by a widow, who will continue the business at Lavender Hill.

HANBURY.—At Castle Malwood, Lyndhurst, on September 2, Katharine Aldam, widow of the late Sir Thomas Hanbury, K.C.V.O., aged seventy-seven.

ROBINSON.—At Browgate, Baildon, on September 6, of malaria, Mr. Arthur Robinson, Ph.C., aged thirty-six. Mr. Robinson passed the Major examination in 1906. During the war he served in the Navy; shortly after demobilisation he succeeded his father, Mr. H. Robinson, chemist and druggist, in business at Baildon. A few months ago he was elected a member of the Baildon District Council, in the work of which, as also in that of the Moravian Church, he took a great interest. Mr. Robinson is survived by his parents, for whom much sympathy is felt.

SHARP.—At Marion House, Waring Green, Brighouse, recently, Mr. Alfred Sharp, founder of the business of A. Sharp & Co., chemists, 2 Marion Street, aged eighty-two. Mr. Sharp retired ten years ago, and the business has since been acquired by Mr. M. C. Cockroft, chemist and druggist.

WALDEN.—At Albion House, Woodston, Peterborough, on August 31, the mother of Mr. Mark Walden, chemist and druggist (Lewis & Burrows, Ltd., 83 Gloucester Road, London, S.W. 7), aged eighty-seven. The funeral took place on September 4 at Woodston Parish Church, in the presence of a large assembly of friends. The service was choral and at its close the Dead March from "Saul" was played and a muffled peal of bells was rung. The floral tributes were numerous and beautiful.

Wills.

MR. JOSEPH GREEN YATES, chemist and druggist, Wavecrest, Ansdell, Lytham, who died on May 4, left estate of the gross value of 2,480*l.*, with net personalty 2,427*l.* 7*s.* 3*d.* Administration of his estate has been granted to his widow, Mrs. Ellen Ann Yates.

MR. WILLIAM ROBERT HAYCROFT SPRACKETT, retired chemist, St. Albans Road, Westbury Park, Bristol, who died on March 23, left estate of the gross value of 10,488*l.* 7*s.* 6*d.*, with net personalty 2,713*l.* 17*s.* 2*d.* The testator left his property to his wife, and at her death any remaining is to be divided between his children, Florence Kate Critchley, Edith Mary Christine Sheppard, and William George Bertram Sprackett, in equal shares.

SIR THOMAS PETER ANDERSON STUART, M.D., LL.D., D.Sc., 2 Lincluden Gardens, Fairfax Road, Double Bay, Sydney, Australia, who died on February 29, left estate in the United Kingdom valued at 5,446*l.* 3*s.* 9*d.* gross, with net personalty 311*l.* 9*s.* 11*d.* The English executor is the Public Trustee. He left 50*l.* and a marble bust of himself to the Senate of the University of Sydney, and all other his property upon trust for his wife and children.

THE FEDERATED MALAY STATES, Ceylon, and Cyprus have recently joined the list of British Dominions or Protectorates in which the importation of shaving-brushes from Japan has been prohibited.

Trade Notes.

Chloral Hydrate is a special manufacture of the Etablissements Antoine Chiris, whose British branch is 3 Drapers' Gardens, Throgmorton Avenue, London, E.C. 2.

Tooth-brush Prices.—The Master Bone Brush Makers' Association announce in our advertising columns an advance in the price of tooth-brushes which takes effect from September 1.

Calvert's Carbolic Ointment.—A new size of Calvert's Ointment has been introduced, selling at 2*s*. 3*d*. per tin. This takes the place of the 2*s*. 9*d*. jars, which are not now issued owing to the difficulty of obtaining jars.

Folding Scissors.—W. Franklin & Son, Finsbury Court, Finsbury Pavement, London, E.C. 2, offer a novel form of folding scissors which is combined with other functions in one instrument. Peckett's patent—as it is called—is suitable for sale by chemists.

"Red Band" Bismuthated Magnesia.—The revised retail prices of this preparation of the Red Band Chemical Co., Richmond Terrace, Edinburgh, are 4½*d*., 9*d*., and 1*s*. 3*d*. A special discount offer available for one month is made in the company's advertisement in this issue.

Australian Eucalyptus Oil.—Eckersley & Sons, 93-103 Clarendon Street, South Melbourne, referring to the list of distillers of eucalyptus oil printed in the *C. & D.*, state that they have been distillers of *Eucalyptus Dumosa* for over forty years. The oil shows a high cineol test.

Dip-a-Dip Sealing Syrup.—This is the new name for Carma, the latter word having been found unsuitable for registration. The advertisement of the Carma Co., 1 Steward Street, London, E. 1, which is printed in this issue, gives further particulars of this new method of bottle sealing.

Corvusine D.G.—Hawker & Botwood, Ltd., Grays, Essex (this is the new address), advertise Corvusine D.G. wheat-dressing. It is interesting to observe that the pre-war prices are reverted to owing to the improved conditions of manufacture at the new factory. These prices were given in the advertisement.

Leonards' Liver Powders.—Particulars regarding this new preparation are given in the announcement in this issue of Leonards, manufacturing chemists, Albion House, New Oxford Street, London, W.C. 1. An advertising campaign is to be conducted in the near future. Leonards' Liver Powders retail at 1*s*. 6*d*. per box, and the price is protected under the scheme of the Proprietary Articles Trade Association.

Zepto Showcards.—Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C. 4, illustrate in their advertisement a Zepto showcard which they are prepared to send to chemists who order three dozen Zepto pencils. The same firm have taken remarks in the "Daily Mail" regarding the prevalence of grey hair among young women as the basis of an advertisement of Quin-Quenna. An offer of a special poster is made.

"Roche" Products.—The Hoffmann-La Roche Chemical Works, Ltd., manufacturing chemists, 7 and 8 Idol Lane, London, E.C. 3, have revised the trade terms on the "Roche" Products. Under the new scheme the retailers' profit upon sales has been raised to 27½ per cent. on turnover. Carriage is paid on 5*l*. orders. The products referred to are Airol, Digalen, Iodostarin, Omnopon and its compounds, Scopolamine, Sedobrol, Spasmalgin, Thigenol, and Thiocol.

Indian Essential Oils.—Some time ago a new company was established in India entitled the Mysore Development Syndicate, with a considerable capital, to distil and export oils obtained from Indian raw material, including musk ambrette, cardamom, cinnamon-leaf, clove, dill, gingergrass, lemongrass, palmarosa, and vetivert oils. This syndicate has been now taken over by the "Essenflour" Products Co., Ltd., Mysore, for which Mr. Mavlankar, 26-27 Hatton Garden, London, E.C., has been appointed sole agent in Europe. It is anticipated that high-grade products will be offered shortly at competitive prices, as the company has inaugurated the most up-to-date methods of distillation in place of the crude native stills, and it is claimed that the company possesses at present the only modern essential-oil distillery in India.

Sir John Cass Technical Institute.—The new syllabus of this institute, situated in Jewry Street, Aldgate, London, E.C. 3, has been issued this week. Dr. Charles A. Keane is the Principal, and has directed the courses of instruction especially to the technical training of those engaged in chemical, metallurgical, and electrical industries and in trades associated therewith. Facilities are provided for those wishing to carry out work associated with the industries in which they are engaged, or to undertake special investigations and research. The chemistry, metallurgy, and physics laboratories are open both in the afternoons and evenings for work of this character. The instruction in experimental science also provides systematic courses in chemistry, physics, and in pure and applied mathematics for the examinations of London University, and in chemistry and metallurgy for the examinations of the Institute of Chemistry. The enrolment of students commences on September 20 at 7 p.m.

Pears' Golden Series.—The latest addition to the Golden Series of toilet preparations produced by A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C. 1, is Pears' Pear Blossom, which retails at 10*s*. 6*d*. per bottle. The perfume is packed in a distinctive manner in square bottles with cut-glass stoppers, and each bottle is enclosed in a handsome square tin decorated in gold, as is characteristic of the series. The bottles are packed in purple outer cases containing three bottles. The perfume is a pleasant one, which is sure to find favour with persons of refined taste. Messrs. Pears also inform us that the Golden Series toilet cream can now be obtained in jars, some customers preferring this method of packing. The jars are labelled in gold, and the metal screw-top of the jar is also decorated in gold. The outer case is deep ruby with gold lettering. The minimum retail price of the jars is 1*s*. 3*d*., the same as the tubes.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

M/39. Muscarine
L/39. Levesley's horse bandages
C/49. Bistol cocoanut hair-oil
L/69. Nigeria hair dyes
M/79. Holloway's asthma remedy spray outfit
F/89. Arizona soaps
R/89. Parisina drop perfumes
E/89. Bu-Ku kidney cure
C/99. Amour's hygienic feeder (made in France)

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C. 4:

Acid Tubes, L/278
Artificial Eyes, F/288
Bromodyne, B/248
Carlsbad Sprudel Salts, S/278
Casein plant, GL/168
Chloros, C/79
Cocoa nut oil, J/248
Corks, P/268
Corn Razors, L/278
Creme Simon, B/268
Creoline, B/268
Cutex liquid cuticle remover
Dermosa cream, B/268
Fruitine, S/208
Gilsonite, C/89
Glacial acetic acid, M/278
Green colour for ointments, J/148
Hemlock extract for tanning purposes, H/288
Humphrey's veterinary specialities, M/69
Iodocaine, W/188
Italian almonds, M/138
Jay Mack's ledger, B/178
Keene's one-night corn cure, B/208
"Kelpion" Ointment, K/168
Luminal, I/8
Melrose hair-restorer, JL/278
Meta milk of roses, S/288
Nadco dyes, O/89
Neo Salvarsan, W/268
Nurse Harvey's Mixture, D/268
Orilene Capsules, L/278
"Pertussin," SC/188
Phosphatine falieres, K/188
Powder papers, S/268
Prout's badger hair tooth-brushes, S/198
Pumilave pumice soap, M/208
Purgoids, C/89
Quin-sal, M/268
Safety sponges, L/278
Salvacea ointment, S/79
Seegerol hair dyes, S/248
Serum filling machinery, S/178
Sinkina, M/208
Solazzi juice, HF/188
Spanish, T/258
Sulphuric acid, HA/188
Syphons, O/238
Tar oil, A/198
Tin-foil tubes, B/278

Observations and Reflections.

By Xrayser II.

The Dangerous Drugs Act

has, from our point of view, been much improved since its first introduction, and, so far as the improvement is due to the action of the Pharmaceutical Society, that body is to be congratulated. Our position and rights are now recognised and safeguarded, and after a first reading of the Act I see little to object to in this respect. Its general policy is another matter, and one I will not enter upon here. The Act, like most of its kind, contains a good deal of verbiage and some expressions that are open to question. I notice one, very common in all official documents relating to our business, which is pertinent to the discussion of the prefix *ad-*, the term "admixture," as it occurs in the phrase "any preparation, admixture, extract, or other substance," and elsewhere in Part III. of the Act. What is an admixture? Originally the word meant the action of mingling one substance with another, and secondarily "that which is mixed with anything; an alloy, an alien element," but surely it has not that restricted sense here. I know that its sense is sometimes extended, but the extension seems neither necessary nor justifiable.

Mr. John Pike's Reminiscences

are not only extremely interesting—especially to one whose experience as an assistant corresponds closely with his in point of time—but of considerable historical value. I am glad that he finds a good word to say of the living-in system. It has its drawbacks, but I am not sure that under normally favourable conditions they are not more than counterbalanced by its advantages. At all events I found it so when hours of business were longer and left little time of one's own for recreation and amusement. Everything depends upon the sort of people one lives with—no: on second thoughts, a good deal depends upon oneself. In all social relations there must be give and take, an interchange of considerateness, mutual good will. Some assistants are as difficult to be lived with as any employer, and for such the outdoor system is best. My own experience was varied, but, looking back, a kindly feeling for every employer I have lived with greatly predominates (by the way, I missed an engagement with Mr. Bourdas by half-an-hour). The only employer with whom I ever had a personal quarrel was a thoroughly good fellow in the house, though, when irritated, a demon in the shop. In fact, I have often found the amenities of social intercourse soften the asperities of business.

The Vacant Post

(if it is vacant) of patron saint of pharmacy should not want candidates. It is, I believe, one of the conditions of canonisation that the proposed saint shall, either before or after death, have performed miracles, and miracles of healing are the commonest of any. Here we have a very appropriate qualification for our patron. Your suggestion of a lady for the post is excellent, and the recent trip of the B.P.C. in North Wales prompts another suggestion. It is natural that British pharmacists should prefer a British patron: why not St. Winifred, whose well we were invited to visit? Her claims are well set forth in the little tract of Father Alford (1712), now procurable in her neighbourhood in a cheap modern edition, in which the miracles wrought by her from the time of her decapitation to that of Wenefride White of Wolverhampton (and later) are recounted. I would rather, however, give my voice for St. Tecla, another Welsh saint, after whom the church and village of Llandegla, between Wrexham and Ruthin, are named. She too was a virgin martyr, and so numerous were the cures of epileptics wrought at her well that epilepsy was known as "St. Tecla's disease." Certain rites were necessary—the sacrifice of a cock or a hen (recalling Æsculapius), etc.—and there was a charge of fourpence, a small sum, as becomes a patron of pharmacy.

The Average Cost

of Insurance dispensing, per prescription and per insured person, appears from the report of the Middlesex Committee to have increased less during the year 1919 than might have been expected, while the dispensing-fee works out for the first three months of the present year at something less than we had been led to expect. These facts afford good ground for insisting upon the grant of a fee of not less than sixpence, as was demanded at the beginning of the year, and the time is rapidly approaching when our case must be presented. One gets weary of insisting upon the necessity for firmness in this matter. We have protested and threatened so often that little heed is taken of our protests, and we ourselves have almost lost faith in their validity. I, for one, begin to understand the temper of the old Hebrew prophets who were always denouncing the slackness of the people and never getting a "move" on them, and the last of whom bitterly described himself as a voice crying in the wilderness.

The Medical Writer

"Lens," whose remarks in "The New Statesman" on the absurdity of forbidding the sale of venereal disinfectants by chemists I referred to a month or two since, has since returned to the charge in an article on "The Crime of Cowardice." The Ministry of Health (he said) are falling between two stools. They have not the courage either to follow the American plan of "thoroughgoing, drastic repression of prostitution," or to adopt wholeheartedly the "chemical plan" of disinfection by permitting the sale of disinfectants by properly qualified chemists. He calls for "the deletion of the laws" which forbid this, and declares that so far as disinfection has been tried nothing has led the authorities to suppose that it is an encouragement to vice. It has not been, however, and cannot be effective in any large degree while the present restrictions continue in force, and it is only the fear of "a hostile public opinion" that prevents their removal. The crime of the authorities is "Cowardice, and the unborn pay the price."

Your Contributor

"D. Dee" is acute and amusing, but, like all critics, he invites criticism, and I sometimes feel a desire to break a lance with him. I think, for instance, that the commas he would delete from the sentence "Yields, when strongly heated, 78 to 82 per cent.," if not absolutely necessary may yet be defended, and that a comma after "epidermis" in the sentence "Transverse section exhibits in epidermis cells containing yellow sphero-crystals," would be out of place. The sentence as it stands is awkward enough, but that is hardly the way to amend it.

"Culinary Herbs,"

the new handbook you mentioned recently, does not, I presume, cover quite the same ground as Lady Rosalind Northcote's pleasant little volume "The Book of Herbs," in Mr. John Lane's series of "Handbooks of Practical Gardening," which, again, does not touch upon the commercial aspect of the subject, though it contains much useful information on the growing of herbs. Lady Rosalind's aim, in spite of the title of the series to which her book belongs, appears to have been entertainment rather than practical instruction, and she has succeeded admirably if that is so. I am not surprised that she has reached a second edition, for a more delightful compilation of curious and often valuable herb-lore could not well be found in so small a space, and its charm is increased by the literary flavour which the writer's style and her many quotations from old and recent poets give to it. She falls, however, into one or two errors, which it is strange to find persisting in a presumably revised edition—as that opium is obtained from the *seeds* of the white poppy, that musk is an English herb included in our Pharmacopœia, and that calendula "owes its introduction and first use entirely to homœopathic practice." The last statement, indeed, is a quotation, apparently from Dr. Fernie, who ought to have known better.

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FLETCHER'S SPIRIT REBATE STOCK BOOK.
Fourth Edition now ready.
THE CHEMIST AND DRUGGIST, Sept. 4, 1920, says:—
"Several improvements have been made . . . there are few chemists making galenicals who do not now claim the rebate."
Post Free on receipt of remittance, ONE SHILLING.
FLETCHER, FLETCHER & Co., Ltd.,
Vibrona Laboratories, Holloway, LONDON, N. 7.

Editorial Articles.

The Government Laboratory.

THE report of the Government chemist upon the work of the Government Laboratory for the year ending March 31, 1920, has been published this week. Sir James J. Dobbie states that the number of samples dealt with by the laboratory and chemical stations was 368,898, or 80,000 more than the previous year. The principal increases are due to goods liable to Customs duty, such as wines, sugar, tea, and cocoa preparations, which have been imported more freely owing to the revival of trade after the war. In the paragraphs dealing with the examination of samples of beer it is stated that 132 samples of herb beer and ginger beer were tested, thirty-four containing between 2 and 5 per cent. and four exceeded this limit, one containing 9.6 per cent. proof spirit. Beer and brewing materials were examined for arsenic, and five out of 969 samples were found to contain arsenic in excess of the limits suggested by the Royal Commission on Arsenical

Poisoning, that is "the equivalent of one-hundredth of a grain of arsenious oxide per pound in the case of solids, or per gallon in the case of liquids." In order to determine the liability to table-water duty, twenty samples of mineral and spa waters, 333 samples of cordials, syrups, fruit juices, and essences, and 102 samples of "non-alcoholic" wines were examined. Of the twenty mineral waters, sixteen proved to be medicinal and four were liable to table-water duty. Ten of the samples of cordials, etc., contained more than 2 per cent. of proof spirit, the highest being 11.3 per cent. During the year 18,125 samples of medicinal spirits, tinctures, perfumes, hair-washes, dentifrices, liniments, extracts, infusions, etc., were examined as to their character and spirit strength in order to check the exporters' claim for drawback on the spirit used in their manufacture; and, in addition, 3,808 liniments, hair-washes, and other preparations were tested for the presence of methylated spirit, the use of which in such preparations, when exported on drawback, is prohibited. In one of these the presence of methyl alcohol was detected, and in 341 cases the declared spirit strength of the preparation was overstated. Samples of wood naphtha and of mineral naphtha, intended for use in the preparation of methylated spirit, to the number of 864 were examined. The naphtha represented by 848 of these samples was approved as fit for methylating purposes, whilst that represented by the other sixteen samples was found to be unsuitable. In connection with the use of pure and special denatured alcohol in manufacturing operations, sixty-five samples of petroleum ether and other denaturing substances have been examined, as well as thirty-two samples of pure undenatured alcohol and twenty samples of specially denatured alcohol. With the object of preventing the illegal use of methylated spirit in making tinctures, essences, perfumes, and medicinal preparations, fifty samples taken from manufacturers and retailers were examined, in addition to those taken under the Export Tincture Regulations. For the purpose of controlling the use of duty-free methylated and other denatured spirit in connection with manufacturing operations, 539 samples of recovered spirit, residues from stills, articles manufactured with industrial spirit, and preparations containing such spirit were examined. More than 1,700 papers (an increase of 70 per cent. on the preceding year) were dealt with relating to applications to the Commissioners of Customs and Excise, either (1) in respect of claims for rebate on alcohol used in making medicinal preparations, or (2) in connection with permission to receive methylated spirit and other forms of duty-free alcohol for use in manufactures, tuition, and research. In the former instance advice was required as to whether the claims in question were such as could properly be allowed under Section 4 of the Finance Act, 1918. The other references were sent chiefly for advice as to whether the purposes to which it was proposed to put the alcohol were, from the chemical point of view, such as to justify the granting of the particular indulgence asked for. Three samples of medicated wine were examined to settle questions of exemption from or liability to licence duty in connection with sales. In the section of the report dealing with sugar, glucose, and saccharin it is pointed out that owing to the great inducement to smuggle the last-named article into the country it has to be searched for in all preparations in which there is any probability of its occurrence, and 121 samples of imported substances were especially examined with this object. Three hundred and twenty-one samples of saccharin products were drawn for the purpose of assessing the amount of drawback payable on exportation. Rejected tea is allowed delivery duty-free for use in the manufacture of caffeine, but such tea must be denatured in the presence of Customs and Excise officers to ensure that the process has been effectively carried out. Nine samples of medicines, or articles offered for sale as medicines, were examined in connection with questions of liability to duty. The samples included pills, powders, herbs, liniments, oils, and other remedies. In addition, fifty-three other samples of medicinal articles were analysed in order to establish their identity or their medicinal character, or in connection with import restrictions and the Opium and Cocaine Regulation. Eighteen samples of sheep-dips were received for examination in connection with application by manufacturers for inclusion of their preparations in the official Schedule of Efficient Dips. Before the Ministry of Agriculture give their approval to any dip they must be satisfied that the formula provides for a sufficient quantity of a recognised active ingredient and that the dip has been made in accordance with the formula. In nine cases the samples were found to agree with the formulæ, and were of effective strength at the proposed dilution; two were deficient in active ingredients at the dilution submitted by the makers; in the remaining seven cases the formulas required modification to ensure an efficient dip. Eleven samples of approved dips obtained in different parts of the country were also examined, with the object of ascertaining whether the dips as sold or used correspond in composition with the samples which had received the Board's approval. The analyses showed that one of these had not been prepared according to the formula previously submitted and approved. For the Ministry of Munitions arrangements were made to extract radium from many thousands of luminous dials, compass cards, gun-sights, and similar materials, and to convert it into a form suitable for further use. The matter was in this instance complicated by the presence of the overwhelming proportion of paint with which the radium was mixed for use on the dials, etc. Practically all the radium present in the paints was recovered in a usable form and at a comparatively small cost. A sample of coal-saver was found to consist almost entirely of common salt, which is the usual composition of such articles.

The Turpentine Market.

IN our previous editorial article of May 15, dealing with American turpentine crop influences, when the London spot price was about 210*s*. per cwt., we stated that "eventual big declines in the price of near delivery will presumably be followed by spasmodic rallies until a more sane level can be established under an increased American export movement." The course of the market within the last three months has fairly well justified this forecast. The spot price towards midsummer, indeed, dropped to about 150*s*., but this was followed by a temporary sharp squeeze in July, when as much as 185*s*. had to be paid by needy buyers. The receipts from the United States, which were extremely small until new crop spirit were available, subsequently showed some improvement, but the movement of supplies compared with last year is still disappointing, as indicated by the figures of imports given below. This notwithstanding, prices slipped back constantly in the course of August to the extent of fully 25*s*. per cwt. for spot delivery, to 142*s*.; but at the same time there has been a noteworthy change in the aspect of the market during the last few weeks, as a much firmer feeling has asserted itself for the first four months of next year or

the balance of the current season. This feature is interesting, and would thus tend to bear out the more optimistic arguments in the Transatlantic Press that "the demand from the United Kingdom and other consuming markets is apt to go a considerable way towards sustaining the American markets." Our imports for August should make a fairly satisfactory showing, and it is quite possible that the accession of supplies will prove more liberal for the next few months or until the approach of the winter, when fresh supplies from the source are usually on the wane. Compared with the late summer dullness, the American trade demand is now again on the increase. Prices as current here are still regarded as extravagantly high by the consumer, who is not inclined to buy except from hand to mouth. It may be as well, however, to point out the fact that London prices have just lately dropped below the parity of the Savannah price, at the present relatively low rate of the American exchange, and should a fresh American bull movement be initiated in the near future our market is likely to be sharply affected.

The official returns of imports into the United Kingdom of turpentine and resin for the seven months to the end of July—with comparisons—were thus :

		1913	1919	1920
Turpentine ...	(cwt.)	198,152	316,141	171,485
Valued at		£264,713	£1,251,229	£1,407,690
Resin	(cwt.)	1,381,132	731,555	510,211
Valued at		£719,841	£1,416,134	£1,255,505

These figures are very striking, as clearly indicating the enormous enhancement in values which has taken place compared with the year 1913, even making allowance for the substantial difference covering the fall in the exchange sterling, which alone would represent roughly 30 per cent. of the present cost of import of American turpentine. Not for a long time yet can there be any prospect of prices returning to anything approaching the normal. This is quite obvious, since economic conditions have been entirely changed in more recent years, as testified by the vastly increased cost of living the world over. Based on the increased cost of living in this country, which according to the latest official estimate amounts to 155 per cent. compared with the pre-war basis, the value of commodities must upon the whole have been inflated at least to the same extent. As a matter of fact, the rise in the price of many essential products has been proportionately much greater, this more particularly applying to shellac and turpentine, which enter largely into the manufacture of paints and varnishes. Deducting the difference in value at the present rate of the American exchange, compared with the pre-war normal, from the current price of turpentine of a little over 140*s*., the cost of import would be roughly 100*s*., so that this figure would still show an inflation of about 190 per cent. over a pre-war average price of, say, 35*s*. per cwt. The fact that the price of American spirit has fallen below the parity of the Savannah quotation is doubtless partly attributable to the more considerable quantities of French spirit that have come in, especially late last month, when over 4,000 barrels were landed here in one week, so that the stock of this description, including Spanish, has increased to about 4,200 barrels, thus representing nearly one-third of the stock of American spirit. At the high prices ruling, competition from sources outside the United States has been stimulated, while it is understood that this season's French output has been considerably enlarged. The marketing of substitutes from Scandinavia has also assumed fair proportions, and it is to be hoped that when Russia resumes trading, the pre-war supply from this source, which was an important factor, will eventually be restored. There has been a more keen demand for resin of late, especially for American F grade, which is getting scarce and now commands rates approximating those ruling for the higher grades. The French production of resin is reported to have been doubled, but imports into this country have remained light, being still a long way under what they were in 1913. Much larger quantities of American resin have this year gone direct to South America, where the outlet has been progressive. A careful survey of the outlook in both turpentine and resin would give one the impression that more settled markets will be seen in the near future, although adverse financial and political conditions on the Continent and the labour unrest at home are interfering with industrial developments.

Counteracting German Poison-gas.

FURTHER details of the German method of warfare with poison-gases are given in "The Times," where it is shown that this barbarian system had been deliberately planned in institutions alleged to be founded for the advancement of chemical and physical science. The Kaiser Wilhelm Institute and the Physico-Chemical Institute near by were employed for research on poison-gas as early as August 1914. A correspondent states that they were working with cacodyl oxide and phosgene, for use, it was believed, in hand-grenades. "We could hear the tests that Professor Haber was carrying out at the back of the Institute with the military authorities, who in their steel-grey cars came to Haber's Institute every morning. The work was pushed day and night, and many times I saw activity in the building at eleven o'clock in the evening. It was common knowledge that Haber was pushing these men as hard as he could." Sachur was Professor Haber's assistant. "One morning there was a violent explosion in the room in which most of this war work was carried out. The room was instantly filled with dense clouds of arsenic oxide. The janitors began to clear the room by a hose and discovered Professor Sachur." He was very badly hurt and died soon after. "After that accident I believe the work on cacodyl oxide and phosgene was suspended, and I believe that work was carried out on chlorine or chlorine compounds. There were seven or eight men working in the Institute on these problems, but we heard nothing more until Haber went to the Battle of Ypres." Preparations for production can easily be imagined. The Germans first used chlorine for cloud gas, and certain lachrymators for shell. The chlorine was readily available. At about this time the maximum British capacity for the production of liquid chlorine was one ton a day, while along the Rhine alone the output was over 40 tons daily. The question of production was therefore already solved. The lachrymators were mainly raw materials and intermediates of the dye industry submitted to a reaction, the technique of which the German dye factories readily mastered. Here, again, production presented no real difficulties. Cylinders were also probably available from the industry. The lesson to be drawn from this is of outstanding importance. The Germans adopted and made tremendous developments in chemical warfare by passing through a period of experiment on the front. This period of experiment demanded certain preparations. These preparations covered research, production, and military development. Production might have been the stumbling-block. But the possession by

Germany of a monopoly in organic chemical industry, and particularly a strong dye industry, made it possible, and was in fact an inducement, for her to proceed. A recent number of the "Journal of the Royal Army Medical Corps" gives some interesting particulars of the steps taken to defend the Allied troops against this German method of warfare. Lieut.-Colonel P. S. Lelean writes that it was on April 23, 1915, that London got the news of the first gas attack. The War Office at once made urgent demands on the R.A.M.C. for protection, and that these demands were met was due largely to Colonel Sir W. Horrocks. The gas first used was chlorine. Its menace was met with pads of cotton waste soaked in glycerin and sodium hyposulphite, sewn into muslin bands. It took time to plan, to obtain and assemble materials for these pads, and to organise their manufacture, but in sixty hours there were 98,000 at the Front, in a week 300,000, and in a month 2,000,000. These pads would only neutralise gas for ten minutes, and a man could not work in them for long. The pad was replaced by a helmet made of cotton stuff. It was difficult to get suitable fabric and dyes; eyepieces had to be fitted, and sodium carbonate had to be added to the "hypo." to deal with sulphurous acid, yet in three weeks 300,000 were issued, and the work was so well done that the next gas attack, which lasted four hours, did not cost us one life. But more complicated gases came later, and protection against every possible gas had to be provided. The best absorbent for each gas had to be found, and the gas was then tried through an impregnated helmet on a rat. The next experiment was made on a pig wearing a helmet, and if the pig survived one hour the gas was tried on one of the staff, wearing a helmet, in what was called "the lethal chamber." Scientists with dogged courage risked themselves in these dark chambers, became incapacitated, and returned to the adventure as resolute as ever. When the number of gases increased the number of absorbents had to be increased too. Sodium phenate was an effective absorbent for carbonyl chloride and hydrocyanic acid, but the first day helmets were dipped in this solution 200 women had their arms burnt, a horrid shock to the directors. Then it was found that the sodium phenate having absorbed the hydrocyanic acid, the compound became broken up by the carbonic acid of the breath and the rats died; so an exit valve had to be fitted to the helmet through which expired air must escape. Then hexamine (urotropin) was found by a Russian to clear the air of these gases, and for a time a ton a day of urotropin was made for this purpose. These helmets were on issue from July 1915 to February 1918, and in all 26,800,000 were made. Effective goggles, too, had to be invented as a defence against lachrymatory gas (benzoyl chloride). Not only men but horses also were protected. The helmets were insufficiently "polyvalent," so they were replaced by the box respirator, in whose "tower" were half-a-dozen trays of various absorbents, separated by cellulose diaphragms, and including, in addition to "hypo." and soda, soda lime permanganate to deal with a arseniuretted hydrogen (the soda lime permanganate in granules was invented by the late Lieut.-Col. E. F. Harrison after forty-eight inconclusive experiments), sodium sulphite against chlorpicrin, and animal charcoal. The box withstood six gases run through it in succession for one hour each. This respirator, though so complicated, took only twenty-five seconds to put on, and sixteen millions were issued.

Medical Gleanings.

Treatment of Ringworm.

Dr. W. P. Elford, in "The British Medical Journal," describes a quick method of treating ringworm, and claimed that the majority of cases are successfully dealt with within a month. Dr. Elford says: "The affected area of the scalp must be shaved and cleansed with liquid ethereal soap. The part is then gently and carefully rubbed with a piece of lint which has been dipped in liquor potassæ and dried with a piece of cotton-wool. Next the part is sprayed with ethyl chloride for about thirty seconds and allowed to dry; it is then painted with tinct. iodi mitis. It is unnecessary to repeat the shaving and cleansing with ethereal soap, but the remainder of the procedure should be carried out morning and evening for the first three days and once daily during the subsequent four or five days." A week of such treatment usually effects a cure, after which ung. hydrarg. ammon. is rubbed into the scalp twice daily. Folliculitis, which may have appeared, quickly subsides and healthy hairs soon make their appearance.

External Application of Pepsin.

L. Chenisse (Presse médicale, p. 325, 1920) reviews the advantages of the external application of pepsin, based on its property of dissolving the horny layer of the skin. The following formula has proved successful in the treatment of scar tissue, keloids, etc.:

Pepsin		10 grams
Hydrochloric acid,		
Carbolic acid	of each	1 gram
Distilled water		
	sufficient to make	200 grams

This is applied in the form of a moist compress to the scar. To avoid irritation, set up by the presence of hydrochloric acid, 4 per cent. of boric acid can be substituted. This mixture also permits of the introduction of a number of drugs, and enables the cutaneous application of such substances as resorcin, pyrogallol, sodium cacodylate, sodium bromide and iodide, arsenious acid, etc. It can be applied in the form of an ointment.

The Prevention of Myopia.

Dr. F. W. Edridge-Green read a paper on "Myopia" at the meeting of the British Association. He said the direct exciting cause of myopia appears to be increase of intra-ocular tension through back pressure on the eye, therefore lengthening its antero-posterior diameter. There is no satisfactory evidence that the use of the eyes for near work either increases or causes myopia. In the prevention of myopia any cause which will increase the intra-ocular tension by obstructing the outflow should be avoided. All exercises in children which involve strain with the eyes pointing downwards should be avoided. A typical example of this is the exercise in which a child moves itself up and down from the floor with the eyes pointing downwards. Physical training is of great importance, and it will be noticed that the ordinary forms of exercise—cricket, football, golf, etc.—do not cause myopia, whereas lifting heavy weights, dumbbells, wrestling, boxing, or riding a bicycle uphill in a stooping position, do. It is particularly in those who have sedentary occupations, and who are not in a fit physical condition, and have an hereditary tendency to myopia, that these forms of exercise should be avoided. Exercises which after inquiry are found to cause a feeling of pain or tension in the eyes or distension of the veins of the neck should be strictly forbidden to myopes. Reading in a recumbent or stooping position with the eyes pointing downwards is not advisable.

It Found Them.—A postcard from Minsk, Poland, addressed "To the Fabrique of Glass Medical Syringes 'Record,' London," was safely delivered by the post-office to the General Surgical Co., Ltd., 147 and 149 Farringdon Road, London, E.C. 1.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Devon.—At a meeting of the Devon Insurance Committee, on September 6, Mr. P. F. Rowsell was re-elected chairman. The medical benefit sub-committee recommended that, in view of the rise in the average cost of prescriptions dispensed by chemists, the monthly advances be increased from 5*d.* to 9*d.* per script. The chairman considered that this was a big jump, but enough had never been paid to chemists on account. A circular letter received from the Ministry of Health stated that in future pricing bureaux would undertake the work of preparation and submission to the panel committee, free of cost, of analyses of prescriptions adequate for the performance of the duties of these committees under Article 34 of the Medical Benefit Regulations (1920). It was stated that representations had been made to the Pharmaceutical Committee as to difficulties in connection with dispensing on Bank holidays and Sundays by chemists in certain towns.

SCOTLAND.

The following are among the alterations for August in the Scottish Drug Tariff:

Drugs.—Acetanilidum, 9½*d.* oz.; acetomorph. hydrochlor., 9*s.* 7*d.* dr.; acid. benzoic., 11½*d.* oz.; acid. citric., 7½*d.* oz.; acid. hydrocyan. dil., 6½*d.* oz.; acid. salicylic., 6½*d.* oz.; acid. tannic., 1*s.* 10½*d.* oz.; adeps benz., 4*d.* oz.; aloinum, 1*s.* 3½*d.* oz.; ammon. benzoas, 1*s.* 8*d.* oz.; ammon. ichthosulph. (ichthyol), 8½*d.* oz.; amyl nitris, 1*s.* 5*d.* oz.; anthem. flor., 3½*d.* oz.; argent. proteinat., 7*d.* dr.; atropin. sulph., 16*s.* 10*d.* dr.; barbitonum, 4*s.* 5½*d.* oz.; bismuth. salicyl., 2*s.* 5½*d.* oz.; bismuth. subgal., 2*s.* 8½*d.* oz.; butyl-chlor. hyd., 10*s.* 9*d.* oz.; caff. cit., 5*s.* 7½*d.* oz.; calcii lact., 1*s.* 3½*d.* oz.; calx sulphurata, 6*d.* oz.; chloral hydras, 1*s.* 6½*d.* oz.; chlorof. camph. (B.P.C.), 2*s.* 3½*d.* oz.; cocain. hydrochlor., 10*s.* 6*d.* dr.; codeina, 8*s.* 10½*d.* dr.; codein. phosph., 7*s.* 11½*d.* dr.; collodium salicylic. comp. (B.P.C.), 1*s.* 4½*d.* oz.; conf. sulph., 4½*d.* oz.; ext. belladon. liq., 2*s.* 2*d.* oz.; ext. cannabis ind., 5*s.* 2½*d.* dr.; ext. cascaræ sag. sic., 1*s.* 10*d.* oz.; ext. cascaræ sag. liq., 5*d.* oz.; ext. cinchon. liq., 1*s.* 4½*d.* oz.; ext. colocynth. co., 1*s.* 5½*d.* oz.; ext. ergot. liq., 4*s.* 11*d.* oz.; ext. filic. liq., 3*s.* 6*d.* oz.; ext. hyoscy. sic., 2*s.* 10*d.* oz.; ext. malti, 1*s.* 7*d.* lb.; ext. malti c. ol. morrh. (B.P.C.), 2*s.* lb.; ext. nucis vom. sic., 1*s.* 9*d.* oz.; ferri et ammon. cit., 8½*d.* oz.; glycerin. belladon. (B.P.C.), 11½*d.* oz.; glycerin. boracis, 4*d.* oz.; glycerin. thymol. co. (B.P.C.), 2½*d.* oz.; hydrarg. iod. rubrum, 2*s.* 7*d.* oz.; hydrarg. ox. flav., 1*s.* 4½*d.* oz.; lin. aconit. meth., 4½*d.* oz.; lin. ammon., 4*d.* oz.; lin. belladon. meth., 9½*d.* oz.; lin. calcis, 2½*d.* oz.; lin. camph., 7*d.* oz.; lin. camph. ammon. meth., 6*d.* oz.; lin. chlorof., 11½*d.* oz.; lin. methyl. sal. co., 1*s.* 3½*d.* oz.; lin. opii, 8½*d.* oz.; lin. sapon. meth., 3½*d.* oz.; lin. terebinth., 4½*d.* oz.; lin. terebinth. acet., 6*d.* oz.; lithii cit., 2*s.* oz.; magnes. pond., 5½*d.* oz.; menthol, 4*s.* 8*d.* oz.; paraldehyd., 1*s.* 2*d.* oz.; pepsin., 5*s.* 11½*d.* oz.; phenazon., 3*s.* 3½*d.* oz.; potass. cit., 9½*d.* oz.; potass. sulphas, 3½*d.* oz.; pulv. cinnam. co., 7*d.* oz.; pulv. cretæ arom. cum opio, 6½*d.* oz.; pulv. ipecac. co., 1*s.* 4½*d.* oz.; pulv. jalap. co., 7½*d.* oz.; pulv. rhei co., 9½*d.* oz.; resorcinum, 4*s.* 11*d.* oz.; rhei rad. pulv., 1*s.* 2½*d.* oz.; sapo moll., 4*d.* oz.; sod. cit. tart. effer., 5½*d.* oz.; sod. iodid., 3*s.* 3½*d.* oz.; sod. salicyl., 7½*d.* oz.; sod. sulph. effer., 5½*d.* oz.; sod. sulphocarb., 4*d.* oz.; sp. chlorof., 9*d.* oz.; sulphonal, 8*s.* 2*d.* oz.; syrup., 2½*d.* oz.; syr. rhei, 4½*d.* oz.; thymol, 7*s.* 11½*d.* oz.; tinct. belladon., 8*d.* oz.; tinct. benz. co., 8½*d.* oz.; tinct. camph. co., 5½*d.* oz.; tinct. catechu, 5*d.* oz.; tinct. cinchon. co., 8*d.* oz.; tinct. digital., 6½*d.* oz.; tinct. gelsem., 7*d.* oz.; tinct. guaiaci ammon., 1*s.* 3½*d.* oz.; tinct. hamamelidis, 5½*d.* oz.; tinct. hyoscy., 8½*d.* oz.; tinct. iodi mitis, 8½*d.* oz.; tinct. nucis vom., 6½*d.* oz.; tinct. opii, 7*d.* oz.; tinct. quinin. amm., 7*d.* oz.; tinct. valer. ammon., 7½*d.* oz.; tinct. zingib., 8½*d.* oz.; ung. gall. cum opio, 9½*d.* oz.; ung. hydrarg., 8*d.* oz.; ung. hydrarg. amm., 5*d.* oz.; ung. hydrarg. nit. dil., 4*d.* oz.; ung. hydrarg. ox. flav., 3½*d.* oz.; ung. hydrarg. ox. rub., 4½*d.* oz.; ung. resinæ, 5*d.* oz.; zingiber. pulv., 5*d.* oz. *Appliances.*—Bandages (weight to be calculated without paper)—Plaster of Paris (each in a hermetically sealed tin, spread on muslin), 3 in. × 6 yds., 2*s.* 10*d.* each. Lints—Boric (not less than 45 per cent. and not more than 50 per cent. pure boric acid), in packets, 2½-3 yds. × 17-18 in. in 1 lb., 2 oz. 9*d.*, 1 lb. 5*s.* Wools—Cotton (interleaved), in packets, 2 oz., 11½*d.*; sal-alembroth, 4*s.* per lb., 4*d.* per oz.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," September 1, 1920.)

"NEFERIN" and device including letter "N" ("N" disclaimed); for perfumery, etc. (48). By Florence Forden, 3 Mecklenburgh Square, London, W.C. 1. 403,650.

"TAROTION"; for perfumery, etc. (48). By J. Sparkes, 20 Imperial Buildings, Ludgate Circus, London, E.C. 4. 404,735.

"CARDINAL TOILET SOAP," with device of bird, etc.; for perfumed soap (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 404,991. (Associated.)

"YLIONE"; "ORYXIA"; for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, E. 8. 405,368/9.

(From "The Trade-marks Journal," September 8, 1920.)

"BENTONIA," "HÆMAT-SOL," and "SUNNY MORN"; for animal and poultry medicines (2). By E. F. Benton, 148 High Street, Erdington, Birmingham. 393,880; 395,548/549.

"PYROX"; for an insecticide and fungicide (2). By Bowker Insecticide Co., 60 Trinity Place, New York, U.S.A. 404,761.

"HARVINO": for all goods (3). By H. Vincent, Lion Toffee Mills, Wiggin Street, Birmingham. 393,100. (Associated.)

"VAPOID BRAND PASTILLES"; for medicinal chemicals (3). By T. Kerfoot & Co., Ltd., Oldham Road, Bardsley, Lancs. 398,497. (Associated.)

"ANDAP BRAND PILLS": for pills (3). By W. Millar, J. M. Anderson, and L. Anderson, 6 Park Avenue, Connsbrook Avenue, Belfast. 401,117. (Associated.)

"THEACYLON BRAND," "IBOL BRAND," "EUKODAL BRAND," "CITOBARYUM BRAND," "CHOLEVAL BRAND," "CESOL BRAND," and "ARGOCHROM BRAND"; for medicines (3). By E. Merck, Frankfurterstrasse 220, Darmstadt. 402,640/642/3/4/5/6/7.

"VYTINA": for a medicine (3). By Lyndwood & Co., 37 Red Lion Street, High Holborn, London, W.C. 1. 404,444.

"PRUNOLAX BRAND MEDICINAL PREPARATIONS"; for an internal medicine (3). By Harkness, Beaumont & Co., 6-12 Ballantyne Road, Edinburgh. 404,720.

"CRISTOGLOBIN": for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowcross Street, London, E.C. 1. 404,867. (Associated.)

"PAN-ZENN" on diamond-shaped device; for medicinal chemicals (3). By the Nuxate Laboratories, 68 Bolsover Street, London, W. 1. 405,241. (Associated.)

"MENTHOFAX"; for medicinal chemicals (3). By H. S. Wellcome, Snow Hill Buildings, London, E.C. 1. 405,840.

"HENNA GLOSSA SHAMPOO": for shampoo-powder (48). By Harrod's Stores, Ltd., 87-135 Brompton Road, London, S.W. 1. 397,174. (Associated.)

"DELICIAN"; for toilet cream (48). By J. Cowan, 122 Great Western Road, Glasgow. 402,818.

"KEENOLIA"; for perfumery, etc. (48). By the Casson Chemical Co., Ltd., 23 Newton Road, Westbourne Grove, London, W. 2. 404,149. (Associated.)

"HERBRAOSAM" on circular label; for hair preparations (48). By H. J. Brackley, 9 Barons Court Road, West Kensington, W. 14. 404,832.

"INCANA BRAND POMADE"; for a hair pomade (48). By J. E. Fawcett, 6 Manor Park Parade, High Road, Lee, S.E. 13. 405,020.

"HAMOES"; for perfumery, etc. (48). By Hamoes, Ltd., 67 Welbeck Street, London, W. 1. 405,652.

SEYCHELLES ESSENTIAL OILS.—During the past twelve months the manufacture of cinnamon oil, cinnamon-bark oil, and clove oil, which was started last year in the Seychelles, has made some progress. Prices have, however, fluctuated, and it is not certain what the tendency of the market for these oils will be during the coming months.—"Times Trade Supplement."

Japanese Imports and Exports.

A Tabular Statement from Official Sources of the Business in Chemicals, Drugs, and Allied Produce during the year 1919, compared with the two previous years.

IMPORTS.

—		1917	1918	1919
Soya beans	piculs	1,403,236	1,952,888	2,855,062
Sesame seed	,,	91,362	195,009	180,944
Rape and mustard seed	,,	592,996	563,927	561,145
Cottonseed	,,	358,382	247,939	585,561
Linseed	,,	62,518	109,837	145,564
Ground-nuts	,,	28,108	106,297	188,486
Other seeds	yen	547,382	1,982,917	5,675,721
Condensed milk	kin	4,558,075	3,233,976	4,060,950
Tonic foods	yen	104,787	191,867	349,935
Hops	kin	524,296	431,698	819,906
Liquorice	,,	1,589,034	1,770,640	2,246,964
Saffron	,,	2,517	2,841	8,371
Catechu and gambier	,,	5,855,057	7,873,978	5,460,867
Galls, oak bark, etc.	,,	8,210,815	10,093,818	18,656,781
Gum acacia	,,	271,834	234,299	944,260
Shellac	,,	886,057	1,691,062	532,235
Resin	,,	19,717,689	19,762,815	15,028,293
Glue	,,	674,620	666,699	1,566,366
Gelatin	,,	20,085	74,719	35,489
Phosphorus, red	,,	197,044	98,157	98,936
,, yellow	,,	35,977	—	23,081
Acids: Boric	,,	596,381	770,834	948,820
,, Oxalic	,,	38,776	277,073	400,958
,, Tartaric	,,	257,920	203,426	53,244
,, Salicylic	,,	68,324	390,310	282,720
,, Carbolic	,,	3,576,687	2,230,819	4,649,030
,, Citric	,,	75,440	27,444	34,561
Soda, caustic, crude	,,	36,914,745	12,361,038	60,089,802
Ash	,,	74,132,885	93,863,174	89,429,749
Bicarb.	,,	5,202,229	5,542,772	10,309,001
Peroxide	,,	41,840	16,500	46,978
Nitrate, crude	,,	91,809,555	81,509,242	109,510,019
Borate	,,	2,550,245	1,775,763	1,778,251
Cyanide	,,	405,074	1,191,942	827,894
Potash, Chlorate	,,	177,842	50,803	408,123
Cyanide	,,	493,030	459,497	232,656
Nitrate	,,	131,863	883,010	1,244,442
Bichromate	,,	442,108	167,538	5,544
Bromide	,,	2,518	253	22,872
Alum	,,	433,144	83,294	723,200
Bismuth subnit.	,,	5,192	1,209	1
Ammon. chlor.	,,	683,739	169,526	757,326
,, sulph.	piculs	251,661	18,144	1,687,206
,, carb.	kin	742,437	226,686	535,663
Calcium acetate	,,	193,024	1,034,553	10,015,511
Formalin	,,	432,324	552,506	672,591
Alcohol	litres	1,916	19	76
Glycerin	kin	671,316	453,943	3,103,028
Milk-sugar	,,	49,701	377,855	502,589
Acetanilide	,,	77,085	153,173	194,388
Antipyrin	oz.	54,359	94,259	244,902
Santonin	kin	1,283	2,771	1,626
Quinine salts	oz.	513,763	452,799	388,459
Morphine salts	,,	600,229	165,087	409,109
Cocaine salts	,,	90,049	45,634	42,269
Guaiacol carb.	kin	195	151	3,031
Aniline salt	,,	1	132,837	38,134
Tooth powders and other prepared perfumeries	yen	94,336	122,833	347,213
Alcoholic medicinal preps. (except tr. opii)	litres	34,927	44,277	70,205
All other drugs, chemicals and medicines	yen	4,901,962	9,752,773	11,652,445
All other compounds or preps. of drugs, chemicals and medicines	yen	492,643	539,645	1,137,073
Aromatic chemicals	,,	53,121	226,629	97,077
Volatile oils, veget. fragrant	kin	322,286	509,409	335,182
Turpentine oil	litres	195,663	333,261	44,887
Perfumed waters	kin	57,490	46,982	102,011
Copra	,,	67,795,695	124,877,606	28,430,286
Linseed oil	,,	111,208	331,445	281,595
Castor oil	,,	551,901	789,631	1,299,566
Olive oil	,,	89,260	106,288	201,827
Coconut oil	,,	1,590,021	515,069	360,454
Soya oil	,,	774,312	1,991,207	2,791,749
Paraffin wax (m.p. below 45° C.)	,,	3,496,258	7,340,129	4,445,865
Paraffin wax, other	,,	14,481,630	18,394,356	19,766,886
Vaseline	,,	521,508	435,668	632,875
Paraffin wax (m.p. below 45° C.)	,,	3,496,258	3,340,129	4,445,865
Paraffin wax other	,,	14,134,630	18,394,356	19,766,886
Vaseline	,,	521,508	435,668	632,875
Oils, fats, and waxes, perfumed	,,	31 800	15 597	30,398
Oils, fats and waxes, all other	yen	445,402	947,438	1,246,597
Stearin	kin	456,357	186,340	229,089
Olein	,,	653,459	1,183,228	1,353,650
Veget. tallow or wax	,,	15,812	4,145	329
Soaps, perfumed	,,	78,577	93,401	290,200
Soaps, other	,,	121,627	51,928	61,410
Indigo, dry natural	,,	64,761	1,092,286	1,294,752
,, artificial	,,	1,444	108	96,349
Logwood extract	,,	1,246,781	2,712,701	679,507
Aniline dyes	,,	629,699	1,919,245	2,069,380
Other coal-tar dyes	,,	10,567	22,559	24,831
Oxide of cobalt	,,	87,957	78,319	111,975
Liquid gold, silver and platinum	oz.	20,210	23,836	10,925
Ultramarine blue	kin	69,034	126,375	140,331
White and red lead, litharge	,,	11,230	13,801	111,836
White zinc	,,	72,770	372,834	159,684

IMPORTS—(*continued*).

—		1917	1918	1919
Carbon black	kin	307,903	734,607	600,332
Lacquer	,,	1,253,516	1,560,387	1,841,177
Varnishes	,,	560,360	235,400	555,824
Pitch and asphalt	,,	1,095,211	1,490,100	1,872,855
Shoe-polishes	,,	112,234	51,733	151,184
Photo dry plates	yen	546,227	760 071	(not stated)
Bismuth	kin	33,871	24,757	78,824
Antimony	,,	29,209,784	10,619,469	3,265,004
Surgical instruments	yen	220,321	159,186	500,961
Photographic instruments	,,	147,243	218,898	383,722
Mercury	kin	289,695	420,678	744,469

EXPORTS.

—		1917	1918	1919
Soya beans	kin	2,555,233	1,205,693	1,100,939
Ground-nuts	,,	14,081,891	14,141,249	10,940,134
Rape and mustard seed	,,	10,019,206	2,057,540	6,133,058
Linseed	,,	8,527,173	3,268,128	14,460,391
Sugar, refined	,,	220,903,954	190,878,168	109,500,603
Mineral waters	doz.	295,770	314,790	300,081
Ciders, citron, etc.	,,	119,907	120,365	160,413
Coconut oil	kin	26,187,195	40,462,694	17,687,555
Sesame oil	,,	—	773,387	(not stated)
Soya oil	,,	5,524,746	4,928,218	2,920,010
Hardened oil	,,	—	591,505	(not stated)
Colza oil	,,	14,758,367	20,125,012	8,885,453
Castor oil	,,	—	424,908	(not stated)
Cottonseed oil	,,	1,209,551	1,834,798	2,310,840
Linseed oil	,,	—	4,194,113	(not stated)
Camphor oil	,,	1,713,633	1,370,869	1,030,601
Mint oil	,,	259,720	214,635	409,199
Fish and whale oil	,,	24,158,277	23,724,596	10,070,291
Fish wax	,,	—	434,512	(not stated)
Wax, vegetable	,,	4,976,093	8,924,049	1,648,724
Soaps, toilet	doz.	5,040,409	4,732,659	3,588,801
,, washing	kin	435,873	1,446,921	2,011,538
Toilet creams	,,	—	648,885	486,811
Toilet or perf. water and hair-oil	yen	996,057	1,162,772	1,004,386
All other oils, fats and waxes and manufactures thereof	,,	2,242,033	4,614,035	8,548,156
Agar-agar	kin	2,106,942	2,639,456	1,507,154
Chillies	,,	2,377,849	1,097,466	427,219
Ginger, dried	,,	4,783,546	5,912,345	825,567
Soy	sho	3,891,965	1,760,127	1,591,687
Ginseng	kin	264,886	209,928	125,788
Dried plants for insectifuge	,,	2,498,007	2,417,134	5,418,400
Kaki ext. and other tanning extrs.	,,	2,494,506	447,229	166,207
Compressed oxygen	,,	149,875	94,645	53,562
Insect powder	,,	503,414	611,288	730,472
Sulphur	,,	142,409,530	90,161,847	47,780,599
Camphor	,,	3,119,915	1,764,217	2,031,280
Potash, bichromate	,,	—	—	161,293
Bromide	,,	—	63,250	—
Carbonate	,,	—	1,089,197	(not stated)
Chlorate	,,	2,582,209	3,608,102	2,791,647
Chloride	,,	—	—	422,588
Ferri and ferro cyanide	,,	—	128,398	(not stated)
Iodide	,,	165,403	184,950	99,055
Resin	,,	—	2,760,377	(not stated)
Alum	,,	—	2,408,538	1,483,809
Phosphorus, yellow and red	,,	—	237,477	565,837
Acetic acid	,,	4,257,737	3,525,878	3,682,682
Calcium carbide	,,	5,442,079	21,633,510	2,549,928
Menthol	,,	251,210	237,311	239,973
,, cone	doz.	195,137	260,420	180,954
Camphor (Borneo)	kin	—	—	14,934
White zinc	,,	—	—	432,298
Coal-tar dyes	,,	—	—	2,835,462
Soda sulphide	,,	—	—	623,524
Nitric acid	,,	—	—	821,195
Zinc dust	,,	1,647,140	1,201,612	188,205
Naphthalene	,,	1,054,068	1,106,647	896,563
Iodine, crude	,,	47,370	61,389	18,117
Sulphuric acid	,,	6,949,083	5,862,009	5,354,092
Copper sulphate	,,	2,817,386	2,611,655	1,240,094
Caustic soda	,,	660,050	1,100,581	829,965
Bleaching-powder	,,	10,781,629	8,243,747	4,053,376
Ammon. sulphate	,,	—	875,740	(not stated)
Prepared medicines	yen	1,605,869	1,915,318	1,851,219
All other drugs, medicines, and chemicals	,,	9,230,518	12,396,777	9,517,338
Gauze, wadding, and bandages	,,	1,010,611	1,183,110	2,275,663
Brushes: Hair	doz.	416,310	518,583	370,057
,, Tooth	,,	5,224,875	8,151,108	5,554,732
,, Nail	,,	370,772	341,607	285,941
Prepared perfumeries:				
Tooth powder and pastes	yen	427,424	663,004	644,245
Toilet powders	,,	284,365	354,701	404,656
All other toilet articles	,,	279,245	438,731	748,713
Spectacles	number	3,275,829	2,701,803	1,747,301
Metal powders	kin	630,784	416,621	294,649
Red lead	,,	1,432,665	3,474,727	1,069,065
Coal-tar and pitch	,,	20,471,824	14,662,149	4,620,613
Shoe-polishes	,,	282,586	363,917	261,248
Inks	,,	822,971	1,052,448	848,832
Paints	,,	1,830,137	11,365,693	2,884,898
All other dyes, pigments, etc.	yen	1,431,136	3,519,363	5,281,668
Thermos flasks	doz.	52,272	78,553	72,147

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The Lavender Congress.

By R. M. Gattefossé.

[M. Marcel Provence, the valiant poet and defender of lavender, in announcing to the Press the opening of the first Lavender Congress, trusts that it may prove a success. We have requested M. Gattefossé, who for many years has been interested in the cultivation and distillation of lavender, to favour us with a *résumé* of the work accomplished at this Congress, and he has kindly supplied us with the following summary.]

The first Lavender Congress is a unique event, inasmuch as it marks an attempt to ensure a close collaboration between official science, represented by the leaders of the Congress, M. Perrot, director of the School of Pharmacy of Paris, and M. Humbert, professor of Botany in the faculty of Clermont, the Government, represented by a delegate of the Minister of Commerce, and the manufacturers and cultivators.

Although lavender is a product of the soil which has for a long time engaged the attention of specialists, and although the technical side of its cultivation and distillation has during the past years attained, if not perfection, at least such a high degree as to be envied by many other plants, it is nevertheless important that on such an occasion all the leading organisations of the nation should be afforded an opportunity for coming into direct contact with each other.

True, the work of interested specialists, such as chemists, agriculturists, engineers, having only their immediate or future advantage in view, is extremely rich in results. However, in France at least, such work, if not carried out by disinterested parties, is apt to be regarded with suspicion by scientists. Hence it is desirable that scientists should participate officially, in order to acknowledge definitely the results already achieved, and also to give an impetus to new researches, under different points of view.

For forty-five years lavender has been distilled by means of steam in France, despite German statements on this point and their claim to having introduced this process into France. Messrs. Marie, father and sons, for many years have owned the first steam distillery in the Alps, and were also the first to undertake the cultivation of lavender, and their plantations were greatly admired by the members of the Congress.

M. Lamothe, of Grand Serre, is also one of the pioneers of lavender cultivation, and we are proud of having collaborated with him for many years and disseminated his methods among a wide circle. M. Vial has improved the process of distillation, and together we have introduced in the distilling plant such arrangements as ensure the production of perfect essential oils with the highest yield and lowest consumption of water, an important point in a mountainous country, composed of permeable chalk. Among others who have specialised in this branch may be mentioned M. Augier Cornillac, Gamet and Bonfils, Maure de Gréoux, who has studied the question of manure more particularly.

The results have been marvellous, and it is a far cry to the first attempts undertaken in 1906 by the Syndicat des Lavandes du Diois, which was created with the assistance of M. de Fontgalland and the La Lavande Française Co., of which M. J. Guique is the distinguished manager. This undertaking, which is exclusively agricultural, possesses 2,400 hectares of ground covered with natural and cultivated lavender, and also a distilling plant with a capacity of 1,000,000 kilograms of flowers.

From the foregoing it is apparent that the subject is already well advanced. We may add that we have induced Drs. Forgues, Marchand, Meurisse, and Bounaure to investigate the therapeutic properties of oil of lavender, and they have demonstrated that the purified distillate is more active than sandalwood oil in certain maladies, and infinitely more effective than eucalyptus in pharmacy, as a prophylactic and in hygiene in general.

The interministerial committee for aromatic and medicinal plants was able personally to realise the progress achieved, which unfortunately is still localised to a few departments. However, thanks to this commission, the new methods will reach the departments of the high and lower Alps, Maritime Alps, etc., where hitherto they have encountered more indifference than enthusiasm.

M. Humbert, the distinguished botanist, has thrown light on the important question of hybrids, which frequently bear a close resemblance to genuine lavender, and thanks to his investigations the distiller is now able to avoid distilling noxious admixtures to good flowers. Dr. Chevalier, an expert on the subject of plant cultivation, will devote his attention not only to establishing cases of adulteration, but will also prevent any incitement to sophistication, a point which is not covered by the laws in force. Professor Perrot, as well as his distinguished collaborators, and those pharmacists who are by their profession chemists and botanists and acquainted with the "simples" growing in their neighbourhood, will be interested in a question affecting a peasant industry in over twenty French departments.

The day when the pharmacist will be willing to become the first scientific adviser to whom the harvester of plants, the distiller, and the cultivator may apply; and when, thanks to the interministerial committee, the Government will evince greater interest than is at present the case in the manifold scattered effects being made, the aspect of things may change in our beautiful country. Already the Ministry of Agriculture (which was not represented at the Congress) is, through its departmental inspectors, taking an interest in this question. M. Zacharewitz, of the Vaucluse service, has been a valuable guide to the lavender growers of the department. This Ministry will now certainly find an echo in the neighbouring ministeries: the suppression of adulteration, the revision of foreign Pharmacopœias, export facilities, the repartition of manures, transport arrangements, the problems of hydrography, of such interest to our mountainous districts, all these questions will be rapidly solved by the Lavender Congress, which, we trust, will become an annual event.

Indian Industries.

IV.—Nux Vomica.

Nux Vomica, which is commercially important as the source of the alkaloids strychnine and brucine, is the name given to the seeds of a deciduous tree widely distributed over India, known as *Strychnos Nux-vomica*. The fruits are collected between November and January, and the seeds taken out and dried in the sun, the busy season for export on the West Coast running from February to the middle of May. Shipments are chiefly from Cochin, Madras, Cocanada, Bombay, and Calcutta. Figures for the foreign trade from 1912-13 are given in the following table:

Exports of Nux Vomica from India from 1912-13 onwards.

Year	Quantities Cwt.	Values £	Average value per cwt. Shillings
1912-13	41,518	14,408	6
1913-14	46,149	17,366	8
1914-15	33,161	14,[illegible]56	8
1915-16	59,225	30,760	10
1916-17	56,148	31.137	10
1917-18	40,180	25,112	12
1918-19	62,158	57,606	18

The chief countries participating in the trade in pre-war times were the United Kingdom, Belgium, Germany, Holland, and France. Practically all the Cocanada output went to New York. "Fair general average of season, Europe cleaning," is the usual quality exported. In Madras and Cocanada nux vomica is exported in bags containing 182 and 164 lb., while on the Malabar Coast the unit is a 140-lb. bag. Calcutta ships in ½-cwt. pockets, and Bombay in bags of 140 to 168 lb. gross. The unit of sale in Bombay is the candy of 823 lb., in Calcutta the bazaar maund, and in the South the candy of 500 lb. or 600 lb. generally.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Sept. 9.

BUSINESS continues of very limited volume in view of the falling tendency of prices and the lack of confidence arising from recent events in the political and industrial world. The financial stringency and the daily fluctuating rates of exchange are also an important factor operating against the exporter. Foreign competition in chemicals appears to be increasing, and it will be interesting to see what protection is to be afforded the British manufacturers when the new Bill is brought forward. Meanwhile there is a continued easy undertone among pharmaceutical chemicals, almost without exception, and on orders for quantity a substantial concession on current rates is occasionally obtained. English refined camphor is 1*s.* per lb. lower, and Japanese slabs are again cheaper. Cocaine is lower, following on a reduction in raw material at auction. Guaiacol carbonate, paraformaldehyde, phenacetin, quinine (second-hands), and sulphonal are easier. Menthol is higher on balance; oil of Japanese mint is lower. Eucalyptus oil is dearer and in more demand. Coriander-seed is firmer, dill is dearer, fennel and linseed being steady. Glucose, turpentine, and shellac are lower. Succirubra cinchona at auction was cheaper. New-crop mandrake-root is lower, and hydrastis higher. Pepper is active and dearer.

Higher	Firmer	Easier	Lower
Dill-seed Eucalyptus oil Menthol	Arsenic Coriander-seed Pepper, black and white	Almond oil Anise, star, oil Bromstyrol Citric acid Coumarin Farina (Jp.) Guaiacol carbonate Lemongrass oil Mint oil (Jp.) Paraformaldehyde Peach-kernel oil Phenacetin Quinine (sec. hands)	Camphor (Eng. flowers & tabs., (Jap. slabs) Cinchona (auction) Citronella oil Cocaine Glucose Shellac Sugar Sulphonal Turpentine

Cablegram.

NEW YORK, September 7.—Business is quiet. All mercurials have been reduced. Calomel is now $1.52 per lb., corrosive-sublimate crystals is $1.42, and powdered $1.37. Short buchu is lower at $3.65, acetanilide is cheaper at 53c. per lb., and vanillin is lower at 87½c. per lb.

ACETANILIDE.—Prices have been further reduced in the United States; on the spot, sellers continue to quote from 3*s.* 6*d.* to 3*s.* 9*d.* per lb.

ALBUMEN.—Sales of prime Chinese hen have been made at from 4*s.* 10*d.* to 4*s.* 10½*d.* per lb. on the spot, and for August-October shipment 4*s.* 8*d.* per lb. c.i.f. is quoted.

ALMOND OIL.—The English pressers of B.P. quote 1-cwt. lots at 3*s.* 2*d.* per lb., and smaller lots at 3*s.* 4*d.*

ANISE is unchanged at 88*s.* per cwt. for Russian and 89*s.* to 92*s.* 6*d.* for Spanish.

ANISE STAR OIL is easier, with spot sellers of "Red Ship" brand at 4*s.* 1*d.* per lb.

ANTIMONY.—There has been a little more demand for regulus at the current rates of 52*l.* to 55*l.* per ton for small lots of English, while foreign to arrive has been offered at 47*l.* c.i.f. Crude has remained quiet, warehouse lots being obtainable at 38*l.*

ARSENIC.—The market has hardened up again on a limited supply of white Cornish, prices being 74*l.* to 75*l.* per ton delivered London. Last year's production in the United Kingdom amounted to 2,527 tons, compared with 2,349 tons in 1918 and 2,626 tons in 1917, but the output of arsenical pyrites was only seventy-five tons, compared with 477 tons in 1918. There is reason to believe that the Cornish output has, in the course of this year, weakened appreciably, due to the upset to the local tin-mining industry, where arsenic is chiefly produced as a by-product. The enormous fall in the price of tin from the level attained early in the year, combined with high costs, chiefly explains the slump in Cornish mining.

ASPIRIN continues without feature at from 4*s.* 9*d.* to 5*s.* per lb., and a trifle less for quantity.

BARBITONE is quoted at from 26*s.* to 27*s.* per lb. on the spot, according to quantity.

BENZOATES.—Present prices are from 3*s.* 8*d.* to 4*s.* 2*d.* per lb. for benzoic acid ex toluol, and 3*s.* 9*d.* to 4*s.* 3*d.* for sodium benzoate.

BISMUTH.—The demand is ample to absorb current supplies, and the chief importers' price stands at 12*s.* 6*d.* per lb., as for several years past.

BROMIDES meet with a small demand, and for quantities to come forward (ton lots) low figures are still current for potash, which in small lots can be had at 2*s.* 6*d.*; soda is still 2*s.* 9*d.*, and ammon. 2*s.* 9*d.* to 3*s.* per lb.

BROMSTYROL is easier, importers offering at 35*s.* per lb. on the spot.

CAMPHOR (REFINED).—The English refiners have reduced the price of flowers by 1*s.* per lb., quoting from 10*s.* 6*d.* to 11*s.* per lb., according to quantity; tablets have been reduced in proportion. Japanese 2½-lb. slabs are dull and lower, with spot sales at 6*s.* 6*d.* per lb.

CASSIA OIL is dull of sale at from 7*s.* 9*d.* to 7*s.* 10½*d.* per lb. for 80 to 85 per cent. c.a., and 7*s.* 3*d.* c.i.f. to arrive.

CINCHONA.—At the auction of pharmaceutical bark held in Amsterdam on September 1, 3,597 packages (3,225 bales and 372 cases) were offered, weighing 208,050 kilos. and containing the equivalent of 7,306 kilos. quinine-sulphate. Of this quantity 552 bales and 231 cases sold, the total weight being 34,940 kilos., with a quinine content equivalent to 843 kilos. The prices paid were from 83¾c. to 125¼c. per half-kilo. The first-hand stock of manufacturing and pharmaceutical bark at Amsterdam on August 11 amounted to 17,549 packages. At the London auction on Tuesday a total of 843 packages offered and 180 packages sold, manufacturing descriptions meeting with a fair demand at lower prices. Druggists' sorts were bought in. Of East Indian 263 bales, 42 cases, and 31 bags offered, and 174 bales sold, comprising small to bold Succirubra stem chips at 2*s.* 6*d.* to 2*s.* 7½*d.*, stem chips 1*s.* 10¼*d.* to 2*s.* 1*d.*, shavings and chips 8*d.* to 8½*d.*, Succirubra-root 1*s.* 4*d.* to 1*s.* 10*d.* Fourteen bales Java root sold at 1*s.* 3*d.*; 15 bales Calisaya were bought in at 2*s.* 4*d.* to 2*s.* 7*d.* for part broken quill; 254 bags Ceylon and 44 bags African were also bought in.

CITRIC ACID is easier at from 4*s.* 3*d.* to 4*s.* 6*d.* per lb., less 5 per cent.

CITRONELLA OIL is cheaper, Ceylon on the spot offering at 2*s.* 6*d.* per lb. in drums, and Java at 5*s.* to 5*s.* 3*d.*

OLIVE OIL.—English distillers quote 15*s.* per lb., second-hands offering at 14*s.* 6*d.*

CLOVES are firm, with spot sales of Zanzibar at from 1*s.* 6*d.* to 1*s.* 7*d.* per lb., as to quality.

COCAINE.—The reduction in the coca unit at Amsterdam last week has brought about a further reduction in hydrochloride to 26*s.* per oz. in 25-oz. tins, and for larger quantities makers would probably entertain a lower price.

COCA-LEAVES.—Further particulars of the result of the Amsterdam auction held on September 1 show that the total alkaloid content sold was 812 kilos., out of 4,899 kilos. offered. The prices paid ranged from 13c. to 31¾c. per half-kilo., and the average unit paid was 14.44c., against 23.24c. at the previous auction. The first-hand

stock of Java leaves at Amsterdam on August 11 amounted to 9,261 packages, and seven packages Peruvian.

COCOA BUTTER is steady, with spot sellers of prime English at 2*s*. 9*d*. per lb. in ton lots. At the Amsterdam auction on September 7 Van Houten's A and B quality sold at from 134c. to 142c. per half-kilo.

CODEINE is unaltered on the basis of 26*s*. 6*d*. per oz. for pure crystals and 22*s*. for salts.

COPPER SULPHATE.—There has been a little Continental demand, but the market continues irregular, with some makers who turn out the article as a by-product apt to quote comparatively low terms, as they are well able to produce more cheaply. Terms range from about 42*l*. per ton upwards f.o.b. Liverpool for casks, less 5 per cent. Continental makers are said to be pushing their operations in anticipation of next year's needs, while there is a continuous active demand for suitable raw material from this side, chiefly for Italy and France.

CORIANDER-SEED is firmer at 20*s*. per cwt. for good bright sound Morocco, 18*s*. 6*d*. for middling, and 15*s*. 6*d*. for wormy.

COUMARIN has been selling at irregular prices as the result of price-cutting by dealers; from 27*s*. 6*d*. to 30*s*. is fair current value, and 28*s*. 6*d*. c.i.f. to come forward.

DILL-SEED is dearer at 20*s*. per cwt. for good East Indian.

EGG PRODUCTS are steady. Chinese liquid hen yolk is 90*s*. per cwt. for old and 115*s*. for new, which has been paid; to arrive, August-October shipment is offered at 100*s*. per cwt. c.i.f. Dried yolk has been sold at 10*d*.; sprayed whole egg is 1*s*. 10*d*., and native dried whole egg is 11*d*. per lb. spot.

EUCALYPTUS OIL is dearer, with spot sales of 75 to 80 per cent. cineol at 2*s*. 10½*d*. to 3*s*., market closing firm at the higher price per lb.

FARINA.—Japanese No. 1 closed easier last week at 30*s*. 6*d*. per cwt. spot; but the market is now steadier at 31*s*. 6*d*. For August-October shipment 30*s*. c.i.f. has been paid, and September-November is quoted at 30*s*. 6*d*. c.i.f. Spot value of sweet potato flour is 30*s*.

FENNEL-SEED is steady at 33*s*. to 34*s*. per cwt.

FENUGREEK-SEED is firm at 15*s*. 9*d*. per cwt. for fair Morocco.

GALLS are quiet, with Persian blue offering at from 115*s*. to 120*s*. per cwt.

GLUCOSE is lower, with spot sellers of American water-white liquid at 52*s*. per cwt., duty paid.

GLYCERIN.—The British refiners' price is 130*l*. per ton naked in drums for five-ton lots, and 145*l*. in 56-lb. tins for double-distilled s.g. 1.260.

GUAIACOL CARBONATE has eased slightly, importers offering at from 23*s*. to 24*s*. per lb. Guaiacol liquid is quoted at 31*s*.

HYDRASTIS has been inquired for of late, and holders of autumn-dug ask 34*s*. per lb.

LANOLINE.—B.P. anhydrous is offered at 1*s*. 8*d*. and hydrous at 1*s*. 4*d*. per lb.

LEMONGRASS OIL.—Cochin is quoted at 8¾*d*. to 9*d*. per oz. on the spot, and for forward shipment 6¼*d*. c.i.f. has been paid.

LEMON OIL.—Demand continues slow, the consuming season being at an end. Spot brands are quoted at from 5*s*. 9*d*. to 6*s*. 3*d*., and to arrive at 6s. per lb. c.i.f.

PALERMO, September 2.—The market continues quite neglected so far as the chief consuming outlets are concerned, and the lack of demand is weighing heavily on the situation, as there are holders who cannot afford to wait indefinitely before clearing a part of their stocks. With firm orders it is therefore occasionally possible to obtain some reduction on what is considered the actual market value, but business on this basis is of a chance character, as if the demand were to set in holders would immediately seize the opportunity to "bull" the market again.

LINSEED is steady at 45*s*. per cwt. for good clean quality.

LINSEED OIL.—There is not much alteration, the effect of the lighter home demand being offset by the paucity of spot supplies. Indications favour fairly steady markets, while there is no glut of seed at the moment. The spot market closes at 80*l*. per ton naked, and Hull at 77*l*. 5*s*. naked.

LIQUORICE-JUICE.—Italian block is offered by importers at 220*s*. per cwt. on the spot.

MENTHOL has fluctuated, but is higher on balance. After the close of our last report spot sales of Kobayashi-Suzuki were made at from 32*s*. 6*d*. to 35*s*., but subsequently prices eased to 34*s*., and on Wednesday there were sellers at this figure.

METHYL SALICYLATE.—Dealers are selling at 4*s*. per lb. in usual packages.

MINT OIL.—Japanese dementholised is dull and easier, with sales of Kobayashi-Suzuki at 7*s*. 6*d*. per lb. on the spot.

MORPHINE is unchanged on the basis of 15*s*. per oz. for hydrochloride powder.

NUX VOMICA.—It is difficult to get offers for forward shipment from India in response to cable inquiries from this side. Meanwhile, spot continues scarce.

OPIUM.—The London market remains unchanged, good Turkey druggists' offering at from 19*s*. 6*d*. to 20*s*. per lb. There is a good supply of both Turkish and Persian on the spot, and in view of the new restrictions under the Dangerous Drugs Act an interesting question is raised as to the ultimate disposal of these stocks. The nominal value of Persian alone probably runs into 150,000*l*. Meanwhile, Japan continues to have an unfettered hand in the opium business, as indicated by her large purchases at the sources for several months past. The British authorities appear to be averse to moving in what is a national scandal, but public opinion may shortly arouse them to a sense of their duties. Concerted action on the part of the United States and Great Britain seems called for.

SMYRNA, September 3.—The sales this week amount to 18 cases at from 17*s*. 6*d*. to 21*s*. per lb. as to quality. The exchange to-day is 417 piasters per pound sterling for cheque on London and $0.87 for one Turkish paper pound. The arrivals are 160 cases, against 360 at same date last year.

PARAFORMALDEHYDE is easier on the spot at from 6*s*. 9*d*. to 7*s*. 3*d*. per lb., according to quantity.

PEPPER is firm, with sales of fair *black* Singapore at 6¾*d*. to 7*d*. per lb. Sales to arrive include September-November and October-December shipment at 7*d*. to 7⅝*d*. per lb. c.i.f. Lampong has been sold at 7*d*. to 7½*d*.; Tellicherry is now 8*d*., and Aleppy 7¼*d*. per lb. *White* pepper is firmer, the sales comprising Muntok at from 1*s*. 2¾*d*. to 1*s*. 3½*d*. per lb., also afloat at 1*s*. 2½*d*. September-November and October-December shipment has been done at 1*s*. 1⅜*d*. to 1*s*. 2½*d*. c.i.f.; October-December, 1*s*. 1⅜*d*. to 1*s*. 2¼*d*. White Singapore is 1*s*. 2½*d*. spot, and September-November shipment has been sold at 1*s*. 0¼*d*. to 1*s*. 1½*d*. per lb. c.i.f.

PHENACETIN is selling at about 13*s*. 6*d*. per lb. from second-hands, and at slightly less for quantity. This is below makers' cost.

PHENAZONE.—Some are holding their stocks for better times, but others are still cutting prices, quoting about 20*s*. per lb.

PIMENTO continues quiet, with spot sellers at 4*d*. per lb.

PODOPHYLLUM-ROOT has been offered at lower prices from the United States owing to new crop receipts.

QUICKSILVER.—There is so far not much improvement in the demand, although the tone seems somewhat steadier, with prices ranging from 18*l*. to 19*l*. per bottle, according to description. The Eastern trade has remained almost at a standstill, and Italian is still offering in fair quantities. The American demand is reported very slow on a weak market at about $7.5 per flask at New York.

QUININE.—Second-hands quote sulphate at from 4*s*. 3*d*. to 4*s*. 4*d*. per oz., which is a trifle easier.

SALICIN.—Makers can supply limited quantities at 50*s*. per lb.

SALICYLATES.—Very few orders are being placed, and English makers are inclined to meet competition, prices of B.P. salicylic-acid crystals varying from 2*s*. 9*d*. to 3*s*.

per lb. Sodium salicylate B.P. powder is still 3*s*. 8*d*. to 3*s*. 9*d*., with the usual premium for crystals.

SANDALWOOD OIL is firm, Mysore Government oil offering at 50*s*. to 52*s*. per lb. as to quantity.

SENEGA.—Spot supplies can be had at 7*s*. 9*d*. per lb.

SHELLAC is lower, the spot value of usual standard TN Orange quality having declined 20*s*. to 650*s*. per cwt.; fine Orange is 860*s*. to 870*s*.; fine second Orange, 700*s*. to 730*s*.; pure button, 850*s*.; cakey, A.C., 560*s*.; GAL, 530*s*.; and IG, 500*s*. Futures are lower on balance, the sales including October delivery at from 535*s*. to 550*s*. to 540*s*. per cwt.

SODA HYPOSULPHITE remains firm, and for finest pea crystals in kegs 45*s*. per cwt. can be obtained.

SPARTEINE SULPHATE can be had at from 8*s*. to 8*s*. 6*d*. per oz. from makers, as to quantity.

SUGAR.—The Royal Commission on the Sugar Supply has reduced, from September 6 to October 2, the maximum price of licensed "free" sugar sold to or resold by manufacturers from 140*s*. to 120*s*. per cwt., duty paid, ex store, less 1¼ per cent. discount. Manufacturing sugar under vouchers has been reduced from 140*s*. to 112*s*. per cwt. West Indian crystals and Muscovado are now free of voucher and free of ration. The following are the present prices :

	Grocery		Manufacturing and Ships' Store. Wholesale per cwt. Discount 1¼% to direct buyers
	Wholesale per cwt. Discount 1¼% to direct buyers	Retail per lb.	
Castor, icing, pulverised ...	118*s*. 0*d*.	1*s*. 2¾*d*.	118*s*. 0*d*.
Cubes, loaf sugar	116*s*. 0*d*.	1*s*. 2½*d*.	116*s*. 0*d*.
Granulated, crystals, crushed and chips, dry white sugar, W.I. grocery, crystallised, yellow crystals, white pieces, moist	112*s*. 0*d*.	1*s*. 2*d*.	112*s*. 0*d*.
W.I. Muscovado (moist) raw brown, cane crystals, pieces—other than white W.I. grocery syrups	Free of voucher	Free of ration	Free of voucher
Jellies, knots, and lumps, W.I. and other British Colonial syrups to be sold only to manufacturers	—	—	Uncontrolled
Sugar for domestic preserving	114*s*. 0*d*.	1*s*. 2*d*.	—

The prices of syrup and refined treacle have been reduced to 92*s*. in 2-lb. tins and to 70*s*. in casks.

SULPHONAL is lower, importers offering at from 40*s*. to 41*s*. per lb. on the spot.

TARTARIC ACID has a continued easy undertone at about 3*s*. per lb.

THYMOL remains steady at from 47*s*. 6*d*. to 50*s*. per lb.

TURPENTINE.—The quietly increasing premium on distant contracts for American spirit would seem to give some idea of what might be expected by dealers in the way of American resistance to foreign competition. The premium on January-April has already reached 6*s*. per cwt., and the price of spot has recovered from the worst, closing on Wednesday at 140*s*. 6*d*. per cwt.

ZINC PRODUCTS.—The market in raw material was lately in a bad way on this side, with prices dropping as much as 12*l*. a ton below American parity, due chiefly to the more important offers from the Continent at the abnormal rates of exchange, but the movement was probably overdone by "bear" manœuvre. All the home smelters are now shut down, due to high costs, and some of the Welsh chemical plants more or less connected with zinc-smelting have also either curtailed or stopped operations for the same reason. Zinc ashes are thus much more difficult to quit, and hardly saleable even at 9*l*. a ton for 70 per cent. The outlet for zinc-oxide is rather restricted at about previous rates. There is a good accumulation of raw zinc, but the absurdly low price, compared with the cost of production, is now attracting a little more attention, and prices seem rallying. Zinc dust is quoted 85*l*. per ton, and zinc white at 45*l*. to 60*l*. per ton, according to grade.

German Drug and Chemical Markets.

"During the war Germany was threatened with an economic war after the cessation of hostilities, and now this is being actively conducted to the detriment of Germany's economic position" is the introductory remark to the September market report of a Hamburg wholesale drug-house. "Prior to the war the German merchant was attacked on account of his cheapness, now he is rated for being unable to compete, while joy is felt at this very incapacity. Germans are still being treated as enemies and as debtors, and to be regarded as both simultaneously is too much. Since it has been demonstrated that the home market cannot give sufficient employment to industry, assistance can only be afforded by exports, without which Germany cannot exist. A sane regulation of prices is only possible by increased supplies of goods in a free market, coupled with freedom of export. However, in addition to such difficulties as high wages, dear coal, reduced mercantile marine, a reduction in prices is faced by innumerable other obstacles, such as, first and foremost, the difficulty of importing raw materials cheaply, a difficulty which is increased by the enormous fluctuations in the rate of exchange. Germany will only be able to maintain herself within her restricted economic field if the cost of production is kept at the lowest possible figure, to realise the greatest possible profit, in order by this means to reduce the burden which has to be borne. During the last few weeks prices have been equalised as between very high factory quotations and too low dealers' prices." The following prices are quoted without engagement, in marks, per kilo. :

ACETIC ACID.—Glacial (98/100 per cent.) is very firm at m.15. Large transactions in acetic acid (80 per cent.) have resulted in increasing the price to m.13.50, and foreign buyers are now evincing more interest.

AMMONIUM CHLORIDE.—First quality white (98/100 per cent.) during the summer has not been in great demand, but is likely to be in more request during the autumn, consequently prices are likely to advance. It is still offered at m.9, and at m.13 for sublimated lumps.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, owing to scarcity of supplies and brisk demand, the price has advanced to m.95, at which it is advisable to purchase.

BENZOIC ACID and SODIUM BENZOATE.—The demand has now increased. Sodium benzoate is very firm at m.59, and benzoic acid at m.65.

BORAX.—After temporary stagnation a brisk demand to satisfy daily requirements has set in, a sign of reviving industrial activity, in view of the wide applications of this article. Crystals are offered at m.10 and powder at m.10.50. Boric acid is now appreciably scarcer at m.19.50.

CAFFEINE (PURE).—Owing to its scarcity, both with manufacturers and dealers, it is now again approaching its highest war quotation of m.800; the same applies to caffeine sodio-benzoate and caffeine sodio-salicylate, which have advanced to m.500, and are scarce.

CHAMOMILES.—It is now possible to form a definite opinion on the reports of the harvest from the various centres, which may be summed up in the statement that this year's crop is really a small one, and an increase in price must be reckoned with, particularly since the world consumption of chamomiles is very considerable. Good last year's harvest is offered at m.30, gross for net, and this year's crop at m.40, gross for net.

CITRIC ACID has further declined to m.85, as the cold summer has not promoted its sale. Since import licences are not being granted this quotation deserves attention.

COUMARIN.—Speculative purchases have induced a rise to m.450 and m.475 for small quantities.

CREAM OF TARTAR (99/100 per cent.) is now in greater demand, and is quoted at m.35, but seems likely to increase.

GLYCERIN.—In spite of not very abundant supplies, but based upon decreased demand, the price has declined to m.28.

HELIOTROPINE finds little attention at m.550.

LAVENDER OIL.—French has been scarcely in demand at m.700.

MENTHOL.—Transactions have increased, although stocks are low, and have resulted in advancing the price, so that cryst. is now not obtainable below m.850 and recryst. m.875, the latter being particularly scarce.

MILK-SUGAR.—Supplies are now more plentiful, so that it can be offered at m.32; however, it is to be feared that with the approach of autumn and winter supplies will be curtailed.

PEPPERMINT OIL (JAPANESE).—Transactions have taken taken place for prompt delivery of whole cases at m.225 per kg., while there has been an increased demand for the German double rectified at m.350 per kg.

SALICYLIC ACID.—Factory quotation has dropped to m.50, at which price it is also obtainable in the market.

SODIUM BICARBONATE.—The demand is now improving. For quantities m.225 is quoted, and for small amount m.240 per 100 kg.

SODIUM SALICYLATE is scarce at m.70.

STAR ANISE OIL is not in demand, and is being sold in cases at the rate of m.120 per kg.

TARAXACUM.—Autumn delivery at m.18 is worthy of attention, as supplies are scarce.

TARTARIC ACID is now in brisk demand since the price was reduced to m.47 for powder and granular, which is below manufacturers' quotation. Crystals command m.60, as no supplies from manufacturers are forthcoming, and these are very scarce.

THYMOL has long been unobtainable. Recently small amounts have been procurable at m.1,200 per kg.

VANILLIN is extremely firm and advancing in view of the very great demand to meet actual requirements, while manufacturers' supplies are declining, hence a further increase seems probable.

Turkey Opium.

The July issue of the journal of the British Chamber of Commerce of Turkey and the Balkan States reports that the demand has been very slack of late owing to the apathy of consuming markets. America took stringent measures some time ago to confine the use of opium and its derivatives to legitimate purposes only, but there was no actual restriction against imports until within the last month or so. It is to be expected that similar general restrictions will soon come into force in the principal European countries, and this will entail a very marked decrease in consumption (probably considerably over 50 per cent.), for it is estimated that well over this percentage of opium is used for illicit purposes. Before the war Japan bought between 400 and 500 cases annually from Turkey, which were used for smoking purposes in the island of Formosa. During the past year that country has bought over 3,000 cases, which have all been shipped to Japan for conversion into morphine. A letter from New York gives the reason for these heavy purchases. The Japanese are employing large numbers of Chinese labourers in Manchuria and elsewhere for cultivation purposes. It was noticed during the war that unless this labour was supplied with opium very little work was done. The Japanese found it necessary to give each workman an injection of morphine before work was started, and another at the end of the day; in this way very good results were obtained. The Japanese claim that by these means the Chinese will get out of the smoking habit, and that as the morphine in each injection is gradually decreased until only distilled water is used, it will not be long before all those who are so treated will no longer have any craving for either opium or morphine. This may apply to the men who work directly under the Japanese, but the same cannot be said regarding the millions inland who are under no control.

Camphor Allotments.

A report has been received from H.M. Consul at Tamsui to the effect that the allotments of camphor for the September quarter are as follows: United Kingdom, 900 piculs; United States, 2,475 piculs; and France, 365 piculs. It is also reported that the Monopoly Bureau has decided to cease supplying crude camphor to refiners abroad, and will in future sell them fixed quantities of refined camphor through the Japan Refined Camphor Co. at 10 per cent. below market price. Another report from Washington, dated August 20, is as follows: "Confirming the telegraphic report despatched by the Taihoku Consulate on May 25, 1920, the Japanese authorities have decided to discontinue the allotment of crude camphor to camphor refiners in the United States and other countries foreign to Japan. This step has been taken as a measure of relief to the Japanese camphor refiners, who are in serious straits owing to the depression in the celluloid industry. Japanese camphor refiners are concerned with nothing but camphor, while, it is understood, American camphor refiners are concerned with that product only as one of a number of others with which they can keep their plants busy. It is therefore believed that American camphor refiners will not be especially inconvenienced. But, in order to offset any possible loss, the authorities have decided to allot to refiners in the United States, at a special discount, 15,000 lb. of refined camphor a month. During the year ended March 31, 1920, only about 64,000 lb. of crude camphor was allotted to camphor refiners in the United States. A much greater quantity of the refined, however, is allotted, so that American refiners may, with the special discount and the greater quantity, obtain at least their usual profit for handling camphor. The price for refined camphor is 290 yen ($144.56) per 100 lb. This action does not alter in any way the allotments of 'B' and 'BB' grade camphor to celluloid manufacturers. In fact, the authorities are hopeful of being able to increase production during the fall and winter of this year so that allotments to celluloid manufacturers may approach nearer the maximum figures than has hitherto been the case."

Swiss Pharmaceutical Chemicals.

In the course of an article published by the Basle Chamber of Commerce on the Basle chemical industry, it is stated that the year 1919 proved to be satisfactory. The Armistice concluded at the end of 1918 altered the market possibilities, to which the industry had to adapt itself. Orders for pharmaceutical chemicals for the armies in the field ceased, but during the beginning of the year orders arrived from Eastern European countries, the stocks of which had entirely disappeared. The unprecedented drop in the exchange of the newly established countries, and the fact that German competition in the chemical industries set in again, proved to be a great drawback in developing trade to the East. The demand for pharmaceutical chemicals in the world market gradually decreased owing to severe competition in America and the Western countries, so that prices gradually fell. The low rate of exchange in Germany made business extremely difficult. Chemical works had accumulated considerable stocks which had to compete with stocks held by the various armies which were being sold out. The price of alkaloids kept fairly high. The difficulties in procuring raw material have to an appreciable extent decreased. Raw material sold out of army stocks could be bought fairly cheaply. The market for pharmaceutical specialities—for instance, medicines sold in tablets and solutions—proved far less favourable. The medicines referred to are those with indications on their labels for their use for the information of the public. In the case of these medicines the effect of the low rate of exchange made itself still more keenly felt. The conditions of sale in the case of medical specialities cannot be altered so quickly, and the constant change in the conditions of sale give a great deal of trouble to the manufacturer. It may be added that if the price of a medical speciality be raised too much the public ceases buying it. The present international uncertainty with regard to legal rights concerning trade-marks and trade-names has made trade in medical specialities far more difficult than formerly. New countries have been formed in which legislation on these points has not as yet been clearly defined. In the older countries new laws were introduced during the war with regard to trade-marks and patents belonging to enemy firms which caused general confusion everywhere. With regard to 1920 it is difficult to prophesy. One thing is certain, and that is that competition is very severe and that times are difficult for Switzerland, as she is dependent on foreign countries for the majority of her raw materials, including coal, and also owing to the ever-increasing cost of production.

Dominican Lime Industry.

This, the premier industry of the colony, has been making rapid strides during the last few years. Ten years ago the value of the crop was only 36,952*l.*, and it is now approximately 200,000*l.* The bulk of the crop is made into concentrated lime-juice, and this and the raw juice make over one-half the value of the export of the colony. There has been a decline in the output of citrate of lime for some years, but last year a demand arose, with the result that a very much larger quantity than usual was manufactured, giving the second largest item in the exports. The following table gives the details of the export of the lime products in 1919:

		Quantity	Value £
Concentrated lime-juice ...	gal.	166,718	79,691
Raw lime-juice...	,,	298,312	25,089
Green limes	brl.	21,384	26,909
Pickled limes	...	—	683
Citrate of lime	cwt.	6,772	38,593
Essential oil of limes	...	—	13,737
Otto of limes	...	—	9,320
			£194,022

IT IS A remarkable fact that wherever or whenever the medical man gets his hands on an Act of Parliament he almost invariably turns it into a weapon of warfare against the people, and pharmacists in particular, and endeavours to exploit it as an avenue for bringing "grist to his own mill."—"Canadian Pharmaceutical Journal."

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

Liverpool

(August 9 to 14).

Chemical products, etc.:
Barytes (Germ.), 38 cks.
Betanaphthol (Holl.), 10 brls.
Calc. acet. (U.S.), 3,304 bgs.
Cream of tartar, (Sp.) 34 cks., (Fr.) 13 bgs.
Formaldehyde (U.S.), 82 brls.
Soda phosph. (N.Y.), 67 brls.
Tartar (Fr.), 147 bgs.
Drugs, crude, etc.: (Fr.), 54 bgs.; cinchona (Mollendo), 95 bls.; cuttlefish (E.I.), 271 bdls.; sarsaparilla (N.Y.), 24 bls.
Gums, resins, etc.: acacia, (E.I.) 180 bgs., (P. Sudan) 2,266 bgs.; cutch (S'pore), 120 cs.; gambier (S'pore), 2,000 cs. 80 bgs.; resin (Fr.), 350 brls. 435 cks.
Oils, fixed: olive (Fr.), 41 cs.; whale (So. Georgia), 12,200 brls.
Pepper (S'pore), 335 bgs.
Seeds: cotton (E.I.), 3,448 bgs. 8,787 sks.; lin (E.I.), 6,388 bgs.
Turpentine (Fr.), 150 brls.
Wax: bees' (Port.), 159 pkgs.

Manchester

(August 9 to 14).

Argol (It.), 37 eks.; oxalic acid (Holl.), 10 cks.; soda caustic (U.S.), 250 drms.; tartaric acid (It.), 40 brls.; wax, paraffin (U.S.), 692 brls., (scale) 450 brls.

London

(August 17 to September 6).

Chemical products, etc., (Hamburg) 20 cs., (Fr.) 22 cs., (Canada) 23 pkgs.
Acetanilide (N.Y.), 26 pkgs.
Acetic acid, (Can.) 376 brls., (Holl.) 44 cks. 500 drms.
Alcohol wood (Can.), 120 drms.
Ammon. nit. (Norw.), 314 cks.
Argol, (Sp.) 543 bgs., (Fr.) 234 bgs.
Arsenic, (Port.) 45 brls., (Jp.) 50 cs.
Barium peroxide (Cologne), 17 cks. 1 drm.
Barytes, (Germ.) 84 cs. 379 cks. 372 bgs., (Sp.) 2,500 bgs., (Belg.) 900 bgs.
Betanaphthol, (Denm.) 4 cs., (Germ.) 20 cks., (Holl.) 4 cks.
Boric acid (N.Y.), 500 kgs.
Bromides: Potash (Germ.), 14 cks. 20 cs.; soda (Germ.), 5 cs.
Bromine (Hamb.), 410 cs.
Calc. carbide (Go'burg), 1,200 drms.
Calc. citrate (Dominica), 110 cks.
Calc. tartrate (Fr.), 202 bgs.
Cinchonine (Hamb.), 6 cs.
Cobalt oxide (Montreal), 92 kgs.
Creosote (N.Y.), 18 cs.
Epsom salt (Hamb.), 198 cks.
Formaldehyde, (U.S.) 62 brls., (Canada) 56 brls., (Swe.) 24 brls.
Glycerin (R'dam), 105 cks.
Hexamine (Jp.), 10 cs.
Lactic acid (Hamb.), 83 cs.
Magnes. chlor., (Holl.) 115 cks., (Germ.) 109 cks. 161 brls.
Manganese diox. (Swe.), 25 bgs.
Methyl alcohol (Swe.), 3 brls.
Milk-sugar (N.Y.), 344 brls.
Naphthol (N.Y.), 43 brls.
Oxalic acid, (E.I.) 24 kgs., (Holl.), 12 cks., (Germ.) 19 cks. 3 cs.
Paraldehyde, (Holl.) 10 cs., (Can.) 90 pkgs. 83 cs.
Potash bicarb. (R'dam), 9 brls.
Potash carb. (Ch.), 50 cs.
Potash caustic, (Holl.) 7 drms., (Swe.) 20 cs.
Potash chlorate (Alex.), 13 brls.
Potash hydroxide (Norw.), 40 cs.
Potash metabisulph. (Sp.), 12 brls.
Potash perch. (Fr.), 30 cks.
Potash pruss. (Amst.), 4 cs.
Safrol (Jp.), 20 drms.
Sal ammoniac (Cologne), 18 brls.
Salicylic acid, (Hamb.) 6 cs., (N.Y.) 40 brls.
Saltpetre (Cal.), 2,000 bgs.
Soda bichromate (N.Y.), 86 brls.
Soda caustic (N.Y.), 9 cs.
Soda citrate (S. Amer.), 12 cs.
Soda hyposulphite (U.S.), 100 brls. 300 kgs.
Soda nit. (Norw.), 1,000 bgs.
Soda phosphate, (U.S.) 36 brls., (Belg.) 53 pkgs.
Soda sulphide (E.I.), 71 drms.
Tartar, (Fr.) 410 bgs., (Algiers) 28 bgs., (It.) 19 cks.
Tartaric acid (It.), 260 kgs. 29 brls.
Thorium nitrate (N.Y.), 75 cs.
Wine-lees (Sp.), 352 bgs.
Zinc oxide, (Antw.) 700 brls., (N.Y.) 250 brls.
Drugs, crude, etc.: Herbs (E.I.), 40 bls.; roots (Fr.), 7 cs. 15 bls.; leaves (Fr.), 40 bls.; undescribed, (N.Y.) 397 pkgs., (Hamburg) 20 cs.
Balsam Peru (Acajutla), 20 cs.
Belladonna (Cal.), 69 bgs.
Benzoin (Straits), 104 cs.
Calamus-root (Phila.), 7 bls.
Camphor, (Ch.) 100 cs., (Jp.) 200 cs.
Cantharides (Ch.), 45 cs.
Cardamoms, (E.I.) 25 cs., (Cey.) 45 cs.
Cascara sag. (Hamburg), 460 bgs.
Cassia fistula (Amst.). 23 bskts.
Chamomiles (Belg.), 21 bls.
Chiretta (E.I.), 30 bls.
Cinchona, (Cristobal) 23 bdls. 21 bls., (Java) 1,797 bls., (Fr.) 50 cs.
Coca-leaves (Cristobal), 286 bls.
Cod-liver oil, (Aalesund) 263 brls., (Bergen) 175 brls.
Colocynth, (Alex.) 4 bls., (P. Sudan) 114 bls.
Ergot, (Sp.) 3 bgs., (Port.) 2 cs. 51 bgs.
Galls (Ch.), 200 cs.
Henbane (Alex.), 228 bgs. 53 bls.
Henna (P. Said), 194 bls.
Ipecacuanha (M. Video), 12 bls.
Kava-kava, 22 sks.
Kola (W.I.), 7 bgs.
Laurel-leaves (Smyr.), 200 bls.
Liquorice-root (Smyr.), 37 bls.
Menthol (Jp.), 25 cs.
Nux vomica, (E.I.) 87 bgs., (H. Kong) 56 cs.
Olibanum (E.I.), 137 bgs.
Opium, (Tky.) 12 cs., (Alex.) 2 cs.
Rhubarb (S'hai), 35 cs.
Sarsaparilla, (W.I.) 52 bls., (N.Y.) 25 pkgs. 10 bls.
Senna and pods, (Tinn.) 84 bls., (Alex.) 21 bls., (P. Said) 11 pkgs.
Squill (Malta), 80 bgs.
Stramonium (Alex.), 10 bls.
Tamarinds, (E.I.) 61 cks., (Barb.) 185 brls., (Grenada) 26 cks., (Antigua) 528 pkgs.
Turmeric (E.I.), 87 bgs.
Vanilla (B'deaux), 16 cs.
Witchhazel ext. (N.Y.), 80 brls.
Eau de Cologne (Cologne), 11 cs.
Fig. syrup (U.S.), 2,904 cs.
Glaxo (N.Z.), 11,682 cs.
Gums, resins, etc.: Gums not described, (Antwerp) 437 bgs., (Adelaide) 159 bgs.; acacia, (P. Sudan) 2,197 bgs., (Alex.) 100 bgs., (E.I.) 1,199 bgs.; copal, (Ch.) 697 bgs., (Antw.) 736 bgs., (Straits) 213 bgs. 455 cs., (R'dam) 500 bgs. 130 bskts., (Cal.) 24 bgs.; damar, (Jv.) 100 cs., (Straits) 6 cs., (Amst.) 22 cs.; karaya (B'bay), 135 bgs.; lac (Cal.), button 379 chts. 588 cs., shell 1,098 cs. 295 bgs.; olibanum, 56 bgs., (Aden) 255 pkgs.; resin, (Fr.) 200 brls. 1,975 cks., (U.S.) 1,000 brls., (E.I.) 100 cks., (Belg.) 36 cks., (Port.) 29 brls.; tracacanth, (B'bay) 294 pkgs. 20 bgs.
Honey, (W.I.) 441 cks. 34 bxs. 113 cs., (Boulogne) 107 cks., (B'deaux) 375 cs., (N.Z.) 418 cs.
Kieselguhr (Bremen), 1,071 bgs.
Lime-juice, (W.I.) 352 pns. 437 pipes 2 drms. 305 cks. 17 hhds.
Lithopone (Belg.), 450 cks.
Malt ext. (N.Y.), 135 brls.
Mentholatum (U.S.), 288 cs.
Oils, essential: (E.I.) 5 pots 4 cs., (S. Amer.) 7 cs., (Ch.) 6 cs., (Fr.) 13 cs.; anise (Tky.), 30 cs.; bergamot (It.), 50 ½-cs.; caraway (Holl.), 3 cs.; cassia (Ch.), 25 cs.; cinnamon, (Cey.) 52 cs., (Bombay) 20 cs. 17 drms.; citronella, (Jv.) 22 drms., (Rangoon) 4 cs., (Galle) 90 drms., (Cey.) 64 drms.; eucalyptus (N.S.W.), 209 cs.; geranium (Fr.), 1 drm.; ginger (U.S.), 2 cs.; ginger-grass (E.I.), 3 pots; lavender (Holl.), 2 cs.; lemon (It.), 13 cs.; lime (W.I.), 107 cs. 2 drms. 5 cbys.; linaloe (Fr.), 30 cs.; mint (Jp.), 315 cs.; orange (Can.), 47 cs.; palmarosa (E.I.), 1 pot; patchouli (Straits), 3 cs.; petitgrain, (Uruguay) 20 cs., (Argentine) 9 cs.; peppermint (Phila.), 20 cs.; sandalwood (E.I.), 150 cs.; sassafras (U.S.), 2 cs.; thyme (Sp.), 1 drm.; turpentine, (Danz.) 216 brs., (U.S.) 1,000 brls., (Finl.) 22 cks., (Bordeaux) 650 cks., (Lisbon) 10 bgs.
Oils, fixed: Castor (Danz.), 14 cs.; coconut, (E.I.) 10 cks., (Sydney) 2,700 pkgs.; groundnut (Jp.), 11,000 cs.; olive (Fr.), 47 cs.; rape (Jp.), 550 cs.; soyn (Jp.), 16,000 cs.; whale (W.I.), 18 cks.; wood (Ch.), 427 cks. 5 brls.
Petrolatum (U.S.), 861 brls.; vaseline 302 cs.
Rennet ext. (C'hagen), 36 cks.
Seeds: Annatto (W.I.), 216 bgs.; apricot kern. (Ch.). 139 bgs.; canary, (S. Amer.) 3,200 bgs., (Mor.) 1,021 bgs.; castor (E.I.), 1,200 bgs.; carawny (Hull), 100 bgs.; copra, (W.I.) 267 bgs., (E.I.) 10,306 bgs., (N.S.W.) 1,665 sks.; cotton, (S. Amer.) 799 bgs., (Holl.) 1,779 bgs., (P. Sudan) 2,897 bgs.; cumin (Saffi), 200 bgs. (Mor.) 14,996 bgs.; lin (E.I.), 88,000 bgs.; palm kernels (S. Amer.), 38 bgs.; rape (E.I.), 891 bgs.; sunflower (S. Amer.), 600 bgs.
Soy (Ch.), 250 cks.
Spices: Arrowroot (St. V.), 2,219 brls.; cassia (W.I.), 10 pkgs.; chillies (E.I.), 50 bdls. 40 bgs.; cinnamon, (Cey.) 150 bls., (B'bay) 947 pkgs., (R'dam) 60 bls. *chips* 45 pkgs.; ginger (E.I.), 328 bgs.; mace, (Tky.) 32 cs., (W.I.) 428 pkgs.; nutmegs (Gren.), 539 pkgs.; pepper (E.I.) 546 bgs., (Antw.) 195 bgs.; pimento (W.I.), 156 bgs.
Wax: Bees' (E.I.), 25 cs. 39 bgs.; mineral (Hamburg), 100 bgs.; paraffin, (S'pore) 321 bgs., (U.S.) 4,050 bgs., (R'goon) 1,008 bgs., (Cal.) 734 bgs.

Liverpool

(August 16 to September 4).

Chemical products, etc.:
Acetic acid (N.Y.), 27 brls.
Arsenic (U.S.), 349 brls.
Barytes, (Antw.) 700 bgs. 1,000 sks. 200 brls., (Germ.) 58 cks. 300 bgs., (Sp.) 1,100 bgs.
Bismuth ore (H. Kong), 94 bgs.
Calc. borate (Chile), 6,496 bgs.
Copper iodide (Java), 12 brls.
Copper sulphate (Sp.), 189 cks.
Cream of tartar, (Sp.) 6 cks. 272 brls., (Port.) 20 cks.
Glycerin (Sp.), 44 drms.
Iodine (Chile), 60 kgs.
Magnes. chlor. (R'dam), 40 cks.
Potash chlor. (Go'burg), 46 kgs.
Potash muriate (R'dam), 500 bgs.
Potash nit. (Antw.), 10 bgs.
Potash sulph. (Holl.), 24 cks.
Soda bichrom. (B'morc), 50 cks.
Soda binoxalate (Denm.), 10 bgs.
Soda caustic (N.Y.), 155 drms.
Soda chlorate, (U.S.) 398 drms., (Fr.) 100 cks.
Soda nitrate (Chile), 42,969 bgs.
Sulphur (Sic.), 1,429 bgs. 100 brls. 240 cs.
Tartar, (Sp.) 80 brls., (It.) 11 bgs., (Fr.) 106 bgs.
Tartaric acid, (Sp.) 10 brls., (It.) 106 brls.
Zinc oxide (Antw.), 10 cks.
Drugs, crude, etc.: Roots (U.S.), 77 cs.
Aloes (Curaçao), 100 cs.
Balsam Peru (N.Y.), 10 cs.
Cinchona (Arica), 80 bls.
Coca-leaves, (Colon) 63 bls., (Arica) 4 bls.
Copaiba, (Manaos) 16 cs., (Maranham) 6 brls.
Ipecacuanha, (Manaos) 12 bgs., (M. Video) 34 bls.
Koln (W. Af.), 124 bgs.
Laurel-leaves (Smyr.), 156 bls.
Liquorice-paste (Sic.), 60 cs.
Liquorice-root (Gre.), 10 bls.
Manna (Sic.), 6 cs.
Quillaia (Chile), 309 bls.
Sarsaparilla (Colon), 64 bls.
Tuba root (S'pore), 107 bls.
Gums, resins, etc.: Copal (Antw.), 615 bgs. 527 bskts.; lac, button 33 chts.; resin (U.S.), 5,661 brls. 340 cks.
Honey, (W.I.) 97 cks. 29 cs., (N. Orleans) 15 drms., (Chile) 2,607 brls.
Isinglass (Para), 24 cs. 22 bgs.
Lanolin (B. Aires), 78 drms.
Lithopone (N.Y.), 448 brls.
Magnesite (Limni), 2,905 tons.
Methyl alcohol (Go'burg), 19 cks.
Oils, essential: (Sp.), 10 drms.; citronella, (Java) 46 drms., (R'goon) 18 cs.; lemon (Sic.), 3 pkgs.; petitgrain (B. Aires), 10 cs.; turpentine (U.S.), 1,230 brls.
Oils, fixed: Linseed (Sp.), 1,917 bgs.; olive, (Sp.) 352 brls. 150 cs., (It.) 250 cs., (Fr.) 114 cs.; palm (W. Af.), 14,678 cks.; palm-kernels, 1,400 brls.; whale (Georgia), 800 tons 10,528 brls.; wood (H. Kong), 96 cks.
Quebracho ext. (B. Aires), 61,312 bgs.
Resin (U.S.), 2,498 brls.
Seeds: Canary, (Sp.) 109 bgs., (S. Amer.) 804 bgs.; cotton (S. Amer.), 19,817 bgs.; fenugreek (Sp.), 250 bgs.; ground nuts (W. Af.), 59,336 bgs.; lin (Cal.), 1,365 bgs.; palm-kernels (W. Af.), 1,363 tons 110,437 bgs.
Spices: Chillies (Cal.), 17 bdls.; ginger (W. Af.), 19 bgs.
Wax: Bees' (Lisbon), 31 pkgs.; candelilla (New Orleans), 12 bgs.; carnauba, (U.S.) 245 bgs., (Maranham) 805 bgs.; paraffin, (U.S.) 9,905 brls., (Rangoon) 2,400 bgs., (scale) 928 brls.

Proprietary Medicines Bill.

SIR,—There is one aspect of the position of pharmacists under the Proprietary Medicines Bill which I have not seen touched upon and which should make a good point in their favour. Many of the advertised proprietary articles lay special claim to being composed of or containing some wonderful new drug or chemical which has never been heard of, by anybody else, but is the sole discovery of the advertisers. Some of these are even mentioned under fanciful botanical or chemical names, which, however impressive they are to the public, are a source of great amusement to the initiated. Now pharmacists, when packing their own name specialities, do not claim such wonders, but only profess to have hit on a formula the ingredients of which have been found by experience to be mixed in such proportions as have proved efficacious in the particular complaint, the drugs themselves being ones in everyday use. This therefore puts them outside the range of secret remedies, and should be a further argument to put them in a different classification from the cure-alls.

Yours faithfully,

FORMULATOR (19/9).

SIR,—There is one point about this Bill which does not seem to have been noticed. In the memorandum prefixed to the Bill it is stated that "the object of this Bill is to give effect to the recommendations of the Select Committee. It contains no provisions which were not specifically recommended by the Select Committee." Ons of the farthest reaching of the drastic provisions of the Bill is that which prohibits the sale, or offer, or advertisement for sale, "of any medicine or surgical appliance purporting, or stated directly or by implication, to be effective for the prevention, cure, or relief of any of the diseases or infirmities mentioned in the schedule to this Act." The schedule includes "amenorrhœa and other diseases peculiar to women." The Select Committee made no recommendation that the sale of medicines for these diseases should be prohibited. They recommended (*inter alia*) the prohibition of advertisements of "remedies for diseases arising from sexual intercourse or referring to sexual weakness," and the prohibition of advertisements "likely to suggest that a medicine is an abortefacient," but the provision in the Bill goes far beyond these recommendations, and, I suggest, beyond what is reasonable. But even if the provision were reasonable, that would not justify its being put forward as "specifically recommended by the Select Committee." The statement in the memorandum is incorrect, to put it mildly: if it had been made by a medicine proprietor it would no doubt be more forcibly described. If this provision of the Bill passes in the form in which it is framed it will, apparently, wholly prevent the sale of aloes, arnica, ferri sulph., potass. permang., thyroid gland, and several other well-known drugs, all of which are "stated directly, or by implication, to be effective for the prevention, cure, or relief" of amenorrhœa—to wit, in the Extra Pharmacopœia, 17th. edition, p. 960). If it be said that the Bill does not apply to a medical work the answer is twofold: (1) That the prohibition is absolute and without exception, and (2) that one of the authors of the Extra Pharmacopœia is a trader and himself, presumably, sells the drugs mentioned. I suggest that not even the (non-existent) recommendation of the Select Committee can justify such a provision.

Your obedient servant,

"NON-TRADER." (8/9.)

The Term "Adsorption."

SIR,—The word "adsorption" looks to me like a monstrosity. There is a rule in Latin orthography that when "ad" in composition precedes certain consonants, the "d" is assimilated to the letter which follows. Thus, *ad-clamare* becomes *acclamare*, "to cry out at"; *ad-teritus* is written *attritus*, "rubbed away"; *ad-serere* makes *asserere*, "to put one's hand upon a slave's head" as a sign of ownership. (Note that in none of these examples does "ad-" express obvious motion to, addition, or nearness. Compare, however, our own "under" in "understand" and "undertake.") In pursuance of this rule, the compound of "ad" with *sorbere* should be *assorbere*, not *adsorbere*, and the English word "assorption" instead of "adsorption." But such a form is unknown in Latin. Nor, apparently, is it possible, for the genius of the language is against pairs of words beginning with "ad-" and "ab-." My own idea is that the author of "adsorption" mistook the function of the prefix in "absorb." He thought it meant "away from," whereas it merely denotes emphasis or thoroughness. *Sorbere* is "to suck," and *absorbere* "to suck up": the two terms are nearly synonymous. Any inquiry, then, into the etymology of "adsorption" is sheer waste of time. The word is a modern barbarism, like "absquatulate" and "hocus-pocus," to which the laws of classical grammar do not apply. If it fill a need it will survive; if not, it will die and be forgotten.

Yours truly,

L. (6/9).

The Latin for Syrup of Figs.

SIR,—The discussion on the correct interpretation of cyathus induces me to bring to the notice of your correspondents another little problem which seems to admit of several renderings, and that is the correct Latin for syrup of figs. On turning up three separate wholesale drug-lists, I find this listed respectively as Syr. Ficus, Syr. Fici, and Syr. Ficorum, thus indicating considerable diversity of opinion. As ficus is a fourth declension noun, should it not be correctly translated as

"SYRUPUS FICUUM" (4/9).

Apothecaries' Assistants' Examination.

SIR,—As a successful candidate at this examination, I was greatly interested in the account by your contributor (*C. & D.*, August 21, p. 74) of her experiences. My experiences, however, were very dissimilar from those described, and perhaps you will allow me to present the other side. My own observations upon the examination were as follows (but, of course, I may have been present on a different day): First, the time allotted was ample. Next, I found an abundant supply of mortars, pestles, and other requisites, and also numerous kinds of labels. The examiners helped all candidates to find the drugs they required, and a porter was also present to indicate and secure any missing article. But the statement of your correspondent to which I take greatest exception is her criticism that if "all dispensing had to be done at the same rate of time" she "would be sorry indeed for the patient." She gives the time as three-quarters of an hour for two prescriptions. I suggest that your correspondent should visit any good West-End pharmacy where the "art of dispensing" is practised. She would find that an allowance of three-quarters of an hour for two prescriptions only, per dispenser—that is, twenty-four per day of nine working hours—would rapidly reduce the establishment to bankruptcy. Doubtless, however, your correspondent's ideas upon how much neat and accurate dispensing can be efficiently done in a given time will alter when she has had practical experience in a busy pharmacy conducted on modern lines. For the rest, I much enjoyed reading her article.

Yours faithfully,

JANET MURCHIE.

60 Copers Cope Road, New Beckenham.

Insurance Dispensing.

SIR,—I am interested to read the letter signed "Justice" (*C. & D.* July 24, p. 110) regarding the big balance of 65,000,000*l.* which the Minister of Health announces as being in the National Health Insurance coffers. "Justice's" suggestion that an effort should be made by the Pharmaceutical Society, together with the Local Associations Executive, to obtain redress for those chemists who were so heavily discounted on the 1913 and 1914 accounts—in his case 100*l.*, in mine 350*l.*—is quite on the right lines, and has my hearty support. I wrote

in the same strain some eighteen months ago, and you were good enough to publish my letter, but the result was nil. I trust the letter from "Justice" will have a better effect. There must be some hundreds of chemists who are entitled to varying sums for drugs bought and paid for and work done during the first two years of the operation of the National Insurance Act. The Government's plea for discounting the drug-accounts was the insufficiency of the 2s. per head of the insurable population to pay the bills in full—there was no suggestion that we were not entitled to full payment, but simply the Insurance exchequer could not meet its obligations in those areas discounted. This state of things ceased some four years ago, and since then there has been a substantial balance annually, even after the doctors had been paid the "floating sixpence." I submit, therefore, with "Justice," we now ought to get some consideration. The injustice is all the more striking when one remembers that only certain areas were subject to discount—all the others being paid in full. Why one part of the craft should be penalised in this way because they happen to carry on business in a certain area I have never been able to understand. As I have said on many occasions, chemists have most loyally sought to carry out the Act to the very best of their ability, and, I venture to say, with considerable credit to the craft. The treatment meted out to them for this loyalty has been anything but just. Will not some of our members of Council and Local Associations Executive take this matter in hand and push it for all they are worth, in order that an act of justice may be done to certain of their fellow-pharmacists?

Yours faithfully,

JUSTICE No. 2.

Dispensing Difficulties and Notes.

A Lactate Mixture.

SIR,—Can you tell me, through the medium of your paper, what reaction takes place when the following prescription is dispensed? One hour after dispensing the cork was blown out and the contents followed.

Yours truly,

C. S. B. (16/3.)

Sodii bicarb.	ʒiss.
Calcii lactat.	ʒij.
P. tragac. co.	ʒj.
Tr. cardam. co	ʒiss.
Aq. ad	℥vj.

[When this prescription is compounded active reaction occurs between the sodium bicarbonate and calcium lactate. We have been able to confirm your experience very successfully in about five minutes. Sodium lactate and calcium carbonate will result from the reaction. Consequently, we should say the combination is quite incompatible, and the mixture when prepared will most likely be inert. Calcium lactate affords a distinctly acid reaction to litmus paper, and in presence of water very quickly produces energetic effervescence with sodium bicarbonate; hence the trouble.]

Precipitate in Mixture.

SIR,—I should be obliged if you will let me know if the following mixture can be dispensed without a precipitate. Also what is the precipitate?

Yours truly,

A. K. H. (15/3.)

Phenazon.,	
Chloral hydrat. ...	aa. gr. xlviii.
Syr. scillæ	ʒiiss.
Vin. ipecac.	ʒss.
Aq. camph. ad	℥ij.

Misce.

[This cannot be compounded without a precipitate of a kind depending on how it is prepared. If the phenazone and chloral hydrate be rubbed down together with the mixed liquids a white precipitate occurs, and in the course of a night settles down in an even covering of the bottom of the bottle. This precipitate does not shake up until forcibly dislodged. When the phenazone and chloral hydrate are dissolved separately in equal portions of the mixed liquids, and then one poured into the other, an oily layer settles at the bottom of the mixture with an upper milky-looking portion. After standing some hours, the milky portion clears and crystals appear on the bottom and sides of the bottle. When the phenazone and chloral hydrate have been dissolved, each in about 2 fluid drachms of water, and mixed, the oily layer and milky portion appear; but in this concentrated solution crystallisation does not occur after the milky portion has cleared. The oily lower layer and upper clear portion produce, however, a milky mixture when shaken up. The oily layer is obviously chloral phenazone, as this is the form in which it usually separates. In the more diluted form, where crystals are formed, the oily portion disappears—having been merged in the crystals.]

Tutorial Dispensing.

SIR,—I always teach apprentices a general rule in dispensing that chemicals liable to react should be kept as far apart as possible. My last apprentice is now at college studying for the Minor, and has been told to dispense the mixture herewith in a different way—the "correct method," his tutor calls it. I should like your opinion on the matter.

Pot. iod.	gr. xx.
Liq. hydrarg. perchlor. ...	ʒiv.
Sp. amm. arom.	ʒij.
Inf. quass. ad	℥vj.

This I should dispense by dissolving the potassium iodide in part of the infusion, leaving a little more than sufficient room for the other ingredients, then add the mercuric chloride, next the sal volatile, and finish with the remainder of the infusion. The tutor's method is to put the mercuric chloride solution in the bottle, then the potassium iodide, dissolve, then add the infusion of quassia, and lastly the sal volatile.

Yours faithfully,

S. A. I. (15/3.)

[When compounding combinations of chemicals which are likely to react on each other it is sometimes desirable to promote the reaction; in others it may be advantageous to prevent or delay combination. With potassium iodide and mercuric chloride combination is desired, so the tutor's method is quite appropriate; but there will be no difference in the result by following your method. Mercuric iodide is formed when potassium iodide and mercuric chloride are brought together in presence of water, and the mercuric iodide is soluble in very slight excess of potassium iodide forming a double salt, which is strongly resistant to splitting up. The aromatic spirit of ammonia does not produce a precipitate in this combination, although it would create a copious one if the solution of mercuric chloride were present alone, without the potassium iodide, in the mixture.]

Legal Queries.

Pedlar (7/9).—Ung. hydrarg. is not a scheduled poison.

Opium (13/8).—SUNDAY CLOSING OF SHOPS is regulated by the Lord's Day Observance Act, under which only works of necessity and charity can be exercised on Sunday. The sale of medicines by chemists and druggists is regarded as a work of necessity.

Easton (6/9).—(1) The disclosure of the ingredients on the label you send is sufficient to convert the Tonic Elixir into a "known, admitted, and approved remedy." (2) A preparation containing Easton's syrup is a poison within the meaning of Part II. of the Poisons Schedule.

A. W. & Co. (6/9).—The reference to "medicinal value" on the showcard is on the border-line and might be held to involve liability to stamp duty of the chest, lung, and throat pines. You should submit the showcard for the opinion of the Board of Customs and Excise.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. S. (16/8).—"SELF-WASHING" SOAP POWDER.—This powder appears to consist chiefly of soap powder and sodium carbonate, together with small quantities of sodium silicate and borax. A little potassium salt also appears to be present. From this you will see that the powder follows the usual line, and is represented by the following from "Pharmaceutical Formulas":

Soap	5 lb.
Soda	3 lb.
Sodium silicate	2 lb.
Borax	1 lb.

Mix.

Magneto (3/8).—REMEDY FOR GREASE IN HORSES.—We have examined the sample you send of three powders which mixed together are employed as an application for grease on horses' legs. The powders consist of (1) alum, (2) lead acetate, and (3) zinc sulphate. The directions are: Mix Nos. 1 and 2 together in a mortar so that a paste is formed, then add No. 3. Clip off the hair from the leg of the horse and smear on the paste.

C. W. A. (7/9).—THE WEATHER INDICATORS to which you refer are produced by soaking a piece of absorbent paper in cobalt chloride solution. When dry the treated paper is blue, but becomes red when moist. A good formula for the solution is as follows:

Cobalt chloride	10 parts
Sodium chloride	5 parts
Gum acacia	2½ parts
Calcium chloride ...	1 to 2 parts
Water	30 parts

Dissolve.

W. M. (6/9).—There is not likely to be any further accession of unqualified persons to the Register of Chemists and Druggists without examination. The admission of a number of apothecaries' assistants was a precedent which the Pharmaceutical Society justify on the ground of pressure by the Privy Council. Any attempt to repeat such a disastrous move would probably result in wrecking the Pharmaceutical Society.

B. S. & Co. (4/9).—BOTTLE-SEALING.—You will find either Viscose bottle-caps or Dip-a-Dip capping fluid suitable for sealing the corks of bottles containing essential oils.

C. P. (12/8).—MULLER'S EXERCISES.—A series of handbooks is published by the Muller Institute, Ltd., 45 Dover Street, London, W. 1, in which the system of exercises arranged by Mr. Muller are adapted to the treatment of various complaints.

B. H. E. (6/9).—QUININE AND JABORANDI HAIRWASH.—The following from "Pharmaceutical Formulas" will suit your requirements:

Quinine bisulphate	ʒj.
Pilocarpine hydrochloride ...	℈j.
Chloral hydrate	℥ss.
Castor oil	℥j.
Formic spirit	℥iv.
Oil of rose geranium... ...	♏ss.
Oil of neroli	♏xx.
Rectified spirit to	℥xxxij.

Mix. To be applied to the roots of the hair twice a week at bedtime.

W. S. (5/9).—SUPPOSITORY BASES.—In place of theobroma oil the following bases for suppositories have been recommended at various times: (*a*) Equal parts of stearic and oleic acids; (*b*) coconut stearin; (*c*) stearin 4 oz., white wax 340 grains; (*d*) anhydrous wool-fat 3 parts, hard paraffin 1 part; (*e*) cocoa-butter 99, anhydrous wool-fat 1. The last two are especially of use where the medicaments are fluids or extracts.

H. V. H. (6/9).—BOOKS ON WIRELESS TELEGRAPHY.—Marchant's "Wireless Telegraphy" (Joseph Whitaker & Sons, Ltd., 12 Warwick Lane, London, E.C. 4.—5*s.*) and Eccles's "Wireless Telegraphy and Telephony" (Electrician Printing and Publishing Co.—12*s.* 6*d.*).

G. H. B. (6/9).—VARNISHING CATHETERS.—A very elastic copal varnish is employed for this purpose—*i.e.*, one containing a relatively high proportion of linseed oil. An example of the proportions of the ingredients is as follows:

Hard copal	100 lb.
Raw linseed oil	250-350 lb.
Turpentine	130-360 lb.

This is a slow-drying product.

Q. I. (7/9).—QUININE AND IRON TONIC.—Alternative formulas to those containing ferr. et quin. cit. employ the iron as ferr. et amm. cit., liq. vel tr. ferri perchlor., liq. ferri pernit., or ferri sulph. The following is an example:

Quin. sulph.	gr. xcvj.
Liq. ferri perchlor.	ʒij.
Glyc. aurantii...	℥xv.
Inf. quass. ad	℥xcvj.

Misce.

I. A. C. (21/8).—USES OF HYDROGEN.—The chief peacetime use for hydrogen is in the fat-hardening industry, for autogenous soldering, as a filling for tungsten lamps, and for optical lanterns, although for the last-named purpose the local gas supply is generally employed.

W. E. H. (4/8).—DUSTING-POWDERS FOR CATTLE.—The following are suitable powders for dusting on cattle during the winter months to prevent trouble from insect pests:

I.

Flowers of sulphur	ʒj.
Powdered tobacco ...	℥iss.
Cedar oil	♏xxx.
Naphthalene ...	ʒvj.
Insect-powder ad.	℥viij.

II.

French chalk ...	℥viii.
Eucalyptus oil, Terebene ...	aa. ʒij.

III.

Naphthalene ...	96 parts
Creosote	2 parts
French chalk ...	2 parts

IV.

French chalk ...	equal parts
Sanitas powder ...	

It is advisable to give a bed of pine sawdust or shavings for a few nights occasionally. If pine sawdust cannot be obtained, ordinary sawdust mixed with Sanitas may be employed. If the animals should be bedded with this one week out of every five or six the method will be found to act as a preventive of all insect pests.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1870.

Snuff-taking.

It is a well-observed fact that we never know the value of a friend until we have lost him, and then, perhaps, we are disposed to over-estimate his virtues. True, Mark Antony tells us that "the evil that men do lives after them; the good is oft interred with their bones"; but we should be disposed to argue with him on this point. Now that snuff-takers have become curiosities, there arises a champion for the dirty, dying habit in Dr. Murray, of Newcastle, and a very able champion he is too. We should not have thought that so much good could have been said of the practice as he has got together in a small and most pleasantly-written pamphlet. First of all, it affords just the right amount of natural excitement which our nervous system requires. But this is only introductory; Chapter II. brings out, in the blackest of type, Dr. Murray's serious assertion that "an habitual snuffer seldom, I had almost said never, dies of consumption." After the most industrious inquiries our author has only been able to discover one instance where this rule has not been confirmed, and in this case he remarks "circumstances were against the patient."

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Hexamine
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Menthol
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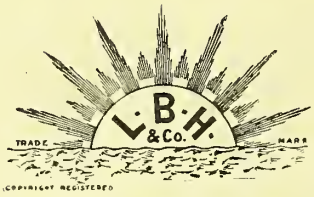

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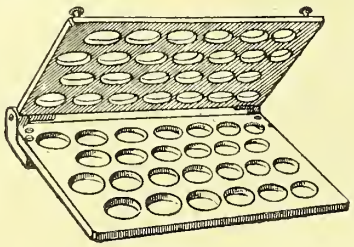

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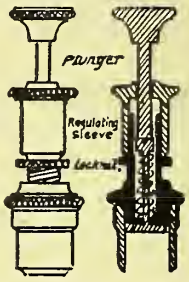

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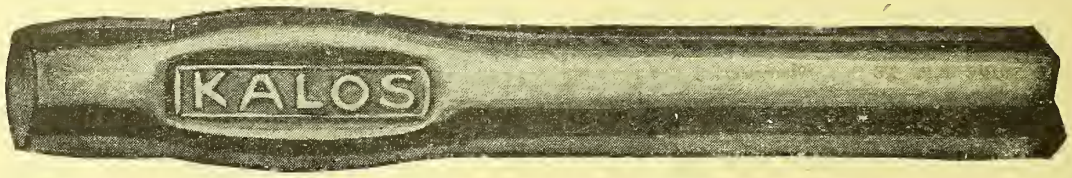

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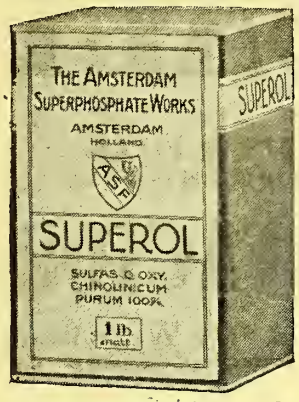

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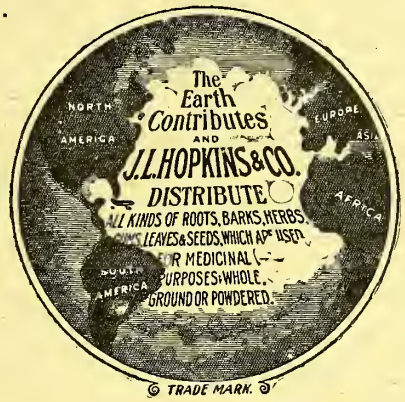

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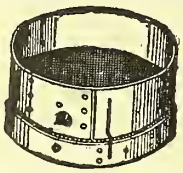

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2-oz. Bottle 1/1½. 4-oz. Bottle 2/-. 16-oz. Bottle 6/-.
(Including FREE VAPORISER.)

THE BRITISH VAPORIFIC MEDICINAL PREPARATION.

Recommended by the Medical Profession for the treatment of

ASTHMA	BRONCHITIS
WHOOPING COUGH	PNEUMONIA
SPASMODIC CROUP	SCARLET FEVER
CATARRH	MEASLES and
SORE THROAT	INFLUENZA

THE COAL BY-PRODUCTS CO.
(Proprietors: Preston, Hull & Co., Ltd.)
112 High Holborn, LONDON, W.C.1.

It will pay you to stock them!

WHEN the public demand goods bearing a specified name the wideawake retailer prepares to meet that demand and so reap the benefits which follow.

IGLODINE is fast becoming a household word, and the public, as the result of an extensive campaign, and the satisfaction which comes after trial, are demanding IGLODINE PREPARATIONS.

Are you the retailer who is preparing to meet the demand?

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THE ANTISEPTIC

For Cuts, Burns, Scalds, Wounds, etc., and for Colds, Influenza and Throat Trouble, Iglodine Preparations are remarkably effective.

Our terms to the trade have been revised, and the Retailer now secures a profit of 50% on the sale of IGLODINE SPECIALITIES.

Iglodine Specialities:

Antiseptic, Embrocation, Ointment, Pastilles, Tablets, Soap, Nasal Douche, Suppositories.

Write to-day for full particulars and coloured display poster (14in. by 19in.) as here illustrated.

THE IGLODINE CO., Ltd. (Dept. N.)
Pilgrim Street, NEWCASTLE-ON-TYNE.

(2) (On the P.A.T.A.) ℙ 13

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of 25%

TRADE PRICES.

			per doz.
D.D.D. Prescrip'ion 3/- bottle,	M.R.P. Face Value,	@	27/-
,, ,, 5/- ,,	,, ,,	,,	45/-
,, ,, 12/- ,,	,, ,,	,,	108/-

In two strengths, Ordinary and Strong.

			per doz.
D.D.D. Soap ... ... 1/3 tab.	M.R.P. Face Value,	@	11/3
,, Shaving Soap 1/6 stick ,,	,,	,,	13/6
,, Vanishing Cream 2/6 jar ,,	,,	,,	22/6
,, Shampoo Powders 2/6 box ,,	,,	,,	22/6

Carriage paid to any part of the United Kingdom.

Showcards &c. Supplied Free.

D.D.D. Co., Ltd.
3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C. 4

33⅓% ON COST.

"MOTHINE"

The only preparation on the market that actually kills MOTH.

To introduce this article small orders will be supplied direct carriage paid.

Wholesale **18/-** per dozen (Concentrated Form).
Retail **24/-** per dozen.
Special Discount 2½% cash with order.

SEQUARINE LIMITED,
Manufacturing Chemists,
Albion House,
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"QUINPHOS" REGD.

THE GREAT TONIC

This Cut-out is an exact reproduction of the "QUINPHOS" package. It stands 11 inches high.

Please send for one or more, and qualify for the BONUS.

FULL PARTICULARS FROM THE

SOLE MAKERS—

THOMPSON & CAPPER, Ltd.

Manesty Buildings, College Lane, LIVERPOOL

Clarke's Blood Mixture.

WHOLESALE PRICES.

3/- size Clarke's Blood Mixture **£1-7-0** per doz. **£16-4-0** per gross net.
12/- ,, ,, ,, ,, **£5-8-0** ,, **£64-16-0** ,, net.

Orders: Minimum Quantity £16-4-0 Value
Carriage paid upon orders of £100.

MINIMUM RETAIL SELLING PRICES 3/- and 12/-

Above prices will give a Profit of 33⅓ % on cost to the Distributors.

Sole Proprietors:

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PARK STREET, LINCOLN.

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ALL GRADES.

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NEUTRAL OILS, Debloomed and Undebloomed.
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WHITE DRILL	17/6	19/6	
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Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
SPECIAL QUOTATIONS FOR QUANTITIES.

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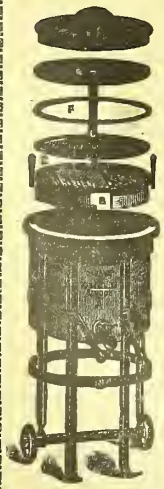

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Nos. 595, 597, 598, 602, 604, etc.
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LUBRICATING OILS of all descriptions

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[2]

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White and Yellow Tasteless and Odourless.
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Fine Leaf Gelatine,
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(In 1-lb. Packets, 112 × 1-lb. to Case.)

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FINE CRYSTAL GELATINES.
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Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

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FINEST NORWEGIAN NON-FREEZING COD LIVER OIL

IN TIN-LINED BARRELS OF 25 GALLONS EACH.

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Plain and with 15% or 33% (by weight) COD LIVER OIL

DIAPARAFFIN

Malt Extract and Paraffin in Powder form.

DRY DIAMALT

Diastasic Malt Extract in Powder form.

The above Preparations are on the P.A.T.A. and allow a 25% margin.

EXTRACT of MALT

Plain and in combination with

NORWEGIAN COD LIVER OIL

in

BULK - JARS - TINS

Name and Address on Labels for quantities of 6-doz. Jars or Tins.
(Selection of Labels sent if required.)

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THE BRITISH DIAMALT COMPANY

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The Medical Profession are recommending VITMAR for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers:

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Barley at its Purest

Fawcett's Natural Process Barley, prepared with milk, is highly recommended for the aged, invalids, expectant mothers and young children because it is specklessly clean—unbleached—untreated by chemicals—untouched by hand.

FAWCETT'S
Natural Process
BARLEY

Particulars of other Fawcett's Specialities on application to

The YORKSHIRE PEARL BARLEY MILLS, Ltd.

POCKLINGTON, YORKSHIRE.

Thousands of People are Daily Taking

RETAILS 3/6 WIDELY ADVERTISED

FROM ALL WHOLESALERS

Are you Selling It to Them?

For particulars of the liberal Trade Terms write to S. Kutnow & Co., Ltd., The Kutnow Laboratories, 41 Farringdon Road, London, E.C. 1.

LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

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Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

TRADE MARK

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

WHOLESALE PRICES.

No. 1.	1½ oz. Tin ...	9/-	per doz.
" 2.	3¼ " " ...	14/6	"
" 3.	6½ " " ...	24/-	"
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MIST. PEPSINÆ CO. c. BISMUTHO

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Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.

Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35–42 Charlotte St., London, E.C. 2.

33⅓ PER CENT. BONUS

The weekly sales of Osmos are steadily mounting. They have now reached an imposing figure and represent a mass of profitable business which is well worth going after. As a special inducement to retailers to co-operate in the present Osmos sales campaign, the Proprietors have allocated a portion of this year's advertising appropriation to provide a bonus in the shape of 4 FREE BOTTLES for every chemist ordering 1 dozen. The condition being that Osmos is displayed in their window until their order is sold.

REVISED PRICE.

Necessitated by enhanced cost of production.

Trade Terms: **26/6** per doz. bottles, carriage paid.

Retail Price: **3/-** per bottle (P.A.T.A.)

Osmos, Crown Wharf, Hayes, Middlesex.

Osmos

The Great British Aperient Water

¶ **The Therapeutical properties of Osmos are equivalent to those of the best-known Alien Aperient Waters. Osmos should, therefore, be sold in lieu of those foreign products. Chemists adopting this practice benefit themselves and their Country.**

"AQUAPERIA"

Owing to the great demand for "AQUAPERIA," the Harrogate Aperient Water, we regret that we cannot guarantee that the Water will always be filled in the usual shaped bottles.

All Chemists holding empty "AQUAPERIA" bottles would be allowed at the rate of 3/- per doz. if returned carriage paid to any of our factories.

CAMWAL LIMITED,

LONDON, MANCHESTER, BIRMINGHAM, BRISTOL, HARROGATE, MITCHAM.

LOSALL'S SALT

SELLS FREELY & READILY

PAYS 50% ON OUTLAY

An Infallible Remedy for GOUT, RHEUMATISM, ECZEMA, and SKIN AFFECTIONS.

P.A.T.A.	Doz.	Net.
4-oz. tins	1/-	8/-
8-oz. tins	1/10	15/-
Bottles	2/6	20/-

The only line of its kind on the market

SOLD EVERYWHERE.

Manufactured by

LOFTHOUSE & SALTMER, Ltd. HULL

ACETIC ACID

Made in Canada. Highest Quality.

SHAWINIGAN

GLACIAL - 98/100 %
80 % pure edible

GLACIAL PURE 99/100 %
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Rates quoted to any port in the world by Shawinigan Ltd., 1 Tudor Street, E.C.4, Suppliers of Calcium Carbide for Cutting, Welding, etc.

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Stocks held in London and Liverpool

SEND US YOUR PROBLEM

IMMEDIATE DELIVERY.

BREATHING APPARATUS and RESPIRATORS

For Work in Poisonous, Noxious and Irritant Fumes, etc.

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FREDK. FINK & CO.,

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SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK

Lightest and Whitest, also Purest Dense

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WHITEPHILL The Best and Cheapest White Dense and Filler

Especially suitable for Dental Creams, Powders, etc.

Prices and samples on application.

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Profitable sales letters which will create you new business are my speciality—results I have obtained for others can be yours also. I work on scientific principles applied to individual needs, with your goods on my desk. My services are free for a limited number of clients—take advantage of my ability now.

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BEUTOL Vanishing Jelly ... 10/- doz. BEUTOL Beauty Milk ... 16/- doz.
BEUTOL Hair Tonic ... 20/- ,, BEUTOL Shampoo Powders 24/- gross
BEUTOL Egyptian Perfume 28/- ,, BEUTOL 2-oz. Brilliantine 16/- doz.
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CACHETS "FINOT"

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With Inscriptions in any desired tint: also Plain or Embossed.

"A distinction all their own."—*C. & D.*

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In 17 Sizes, to fit the various types of Cachet Machines

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LET US SEND YOU 6 doz. & 1 doz. Bonus plenty of show cards, bills, wrappers, carrier bags etc.

PATA 6D EACH | COST 4/- DOZ | NON-POISONOUS

CARR. PAID.

PATA 43% PROFIT

LEIGHTON LABORATORIES, 35 GRAYS INN ROAD, W.C.1.

PER 4/- DOZ. Quin-Quenna (BETTER THAN A SHAMPOO) P.A.T.A. 6D EACH

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Will send at once 6 dozen with 1 dozen Bonus and window material Carriage Paid.

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If not, you should take steps to procure one, and we will pay the cost.

If you already have a licence we undertake to pay the annual charge.

DR HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

The only conditions are—

1. *That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round.*
2. *That you give us an agreed initial order.*
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Advertising Matter and Doctors' Samples free.

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Vinum Xericum

BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

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THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, **2d.** each.

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HEALTH SALT *SUPERIOR QUALITY.*

4-oz. Decorated Tins.

1 Gross ...	78/-	5 Gross ...	77/-
2 „ ...	77/6	10 „ ...	76/6

Carriage paid.

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Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C. 3.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

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The Largest Makers in the United Kingdom.

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Demand for the Nestlé Feeding Bottle is still growing—and it is growing because it is superior to any other feeder on the market. Its many advantages are so evident that mothers, thinking of the safety and comfort of their babies, are insisting upon the Nestlé Feeder.

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The Cheapest full-size Feeding Bottle on the Market.

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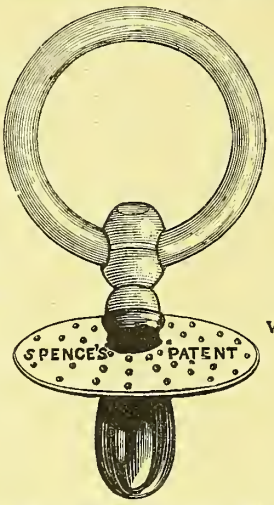

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A complete set of Samples can be sent upon receipt of Postal Order value 22/- Net. £1 orders and over, less 5% cash with order. Carriage paid on 40/- orders and over. Representative can call in London and Suburbs with Samples upon receipt of Post Card.

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9/10 DOMINGO STREET

Tel.: City 3765. 36 OLD ST., E.C.1

Vulcanite DOUCHE FITTINGS
" Spare Parts
" Enema Pipes
" Whirling Spray Canules

BONE SHIELDS
BONE MOUNTS
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French Capping Skins (opaque and transparent)

TOOTH COMBS
(Best Galalit)
POCKET COMBS

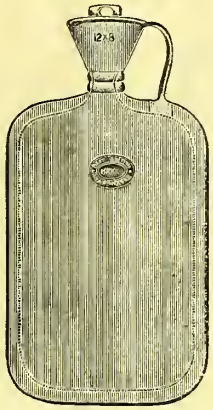
Cheap lines in NAIL FILES (bone and steel) carded.
SAFETY RAZORS and spare blades.

French SHAVING BRUSHES.
NAIL CLIPPERS.
TOOTH BRUSHES
at low prices.

And all kinds of Surgical and Hygienic Rubber Goods.

Best British Make Guaranteed

HOT WATER BOTTLES



Sizes	Each	Sizes	Each
10 × 6 in.	4/6	14 × 8 in.	6/6
10 × 8 ,, ...	5/6	12 × 10 ,, ...	7/-
12 × 8 ,, ...	6/-	14 × 10 ,, ...	8/-

Each bottle in paper bag with directions for use.

Plush Covers for Hot Water Bottles.

Sizes in inches ...	10 × 6	10 × 8	12 × 8	14 × 8	12 × 10	14 × 10
Each	1/7	2/-	2/2	2/4	2/6	2/-

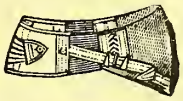
WM. EDWARDS & SONS

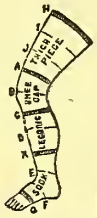
157 Queen Victoria Street, and 239 & 240 Upper Thames Street, London, E.C. 4.

J. H. HAYWOOD, LTD. CASTLE GATE, NOTTINGHAM.

INVENTORS OF SEAMLESS ELASTIC HOSIERY.

SURGICAL APPLIANCE MANUFACTURERS.





Specialities:

Abdominal Belts, Trusses, Suspensory Bandages, Braces, Elastic Web Bandages, and Druggists' Sundries.

WRITE FOR PRICE LIST. ESTABLISHED 1833. TELEGRAMS: "APPLIANCE NOTTINGHAM."

"NORVIC" CRÉPE BANDAGE (REGD)

SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

Comfortable for the day.

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ON P.A.T.A.

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FOR PLASTERS.
THE ORIGINAL.
THE **ONLY** GENUINE.

7d., 1/- & 1/7 Packets
5/3, 9/-, 14/3 per Doz.

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67 Southwark Bridge Road
LONDON - - - - S.E. 1.

"TOMPKINS' CORNER."
Our Offer this Week
BEST BRITISH MAKE.

SIZE.	WHITE.	RED.
6 by 8	4/4	4/6 each
6 ,, 10	4/9	5/- ,,
6 ,, 12	5/-	5/6 ,,
7 ,, 10	5/-	5/6 ,,
8 ,, 10	5/6	5/9 ,,
8 ,, 12	6/-	6/6 ,,
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10 ,, 12	7/-	7/6 ,,
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'Fleecy Ripple Covers'
in Pale Blue, Pink and other colours as available.

6 by 8 in. 12/-	6 by 10 in. 14/-	6 by 12 in. 16/-
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8 by 14 in. 22/-	10 by 12 in. 23/-	10 by 14 in. 26/-

Per dozen net.

"CIRO" MUFF OR COT WARMER
(Each mounted on Showcard) **2/9** each net.
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Ordinary quality or Quinine-tinted.
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Ingram's
LONDON
ESTABLISHED 1847.

The indications are that the coming season will see a big demand for reliable British-made India Rubber Hot Water Bottles.

Have you ordered your stock in readiness for this important Winter trade?

Three reasons why it pays to stock Ingram's "Eclipse" Hot Water Bottle—(1) You have the firm of Ingram's behind you to guarantee the manufacture; (2) the profit is good and the prices are protected by the P.A.T.A.; (3) and the most important, is in selling an "Eclipse" Hot Water Bottle you secure a satisfied customer.

MADE IN VARIOUS SIZES AND
Fitted with WASHER that cannot be lost, and made with a NECK that cannot leak.
:: PATENT Nos. 107940 & 118022 ::

OBTAINABLE FROM ALL WHOLESALE HOUSES

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The London India Rubber Works,
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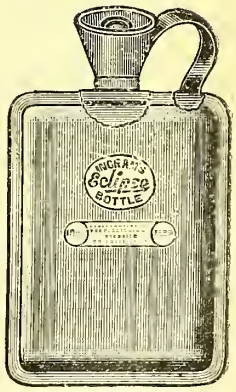

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St. Thomas' Place, STOCKPORT.

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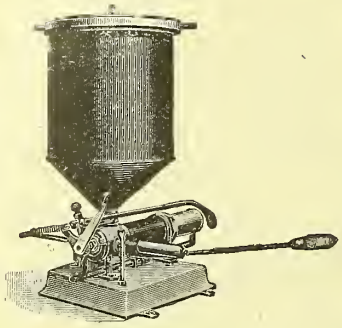
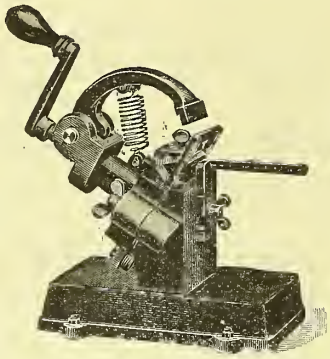
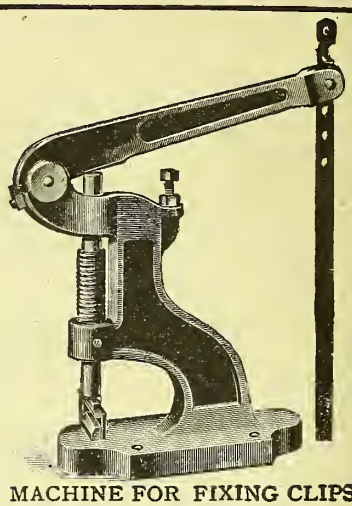


MACHINE for FILLING COLLAPSIBLE TUBES. From 1 to 10 gallons CAPACITY. Output 30 to 40 gross tubes per day.



MACHINE FOR CLOSING AND FOLDING COLLAPSIBLE TUBES. Suitable for all sizes of tubes. ⅜" to 1½" dia.



MACHINE FOR FIXING CLIPS to ends of collapsible tubes.

Can be seen in operation at—

BROOKS, PEEL & CO., LIMITED

24 CITY ROAD, LONDON, E.C. 1.

MANUFACTURERS of Collapsible Tubes in LEAD, TIN-COATED and PURE TIN. SPRINKLERS for PERFUMES, BRILLIANTINE, CREAM, &c. SCREW-CAPS for JARS, &c., in WHITE or LACQUERED TINPLATE, NICKELLED ZINC, ALUMINIUM, &c. SHAVING-STICK CASES, LIP SALVE TUBES, &c. &c.

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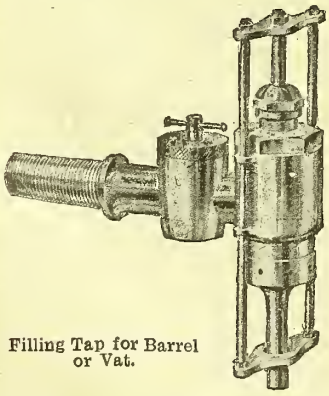
BY USING THE

"CENTRAC"

FILLING MACHINES



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ENGINEERS,

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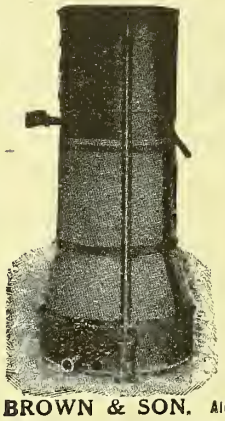

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We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb. Made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic.

For producing up to
1½ gallons per hour, 9 gallons per hour,
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Please Enquire for Quotation.

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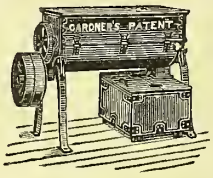

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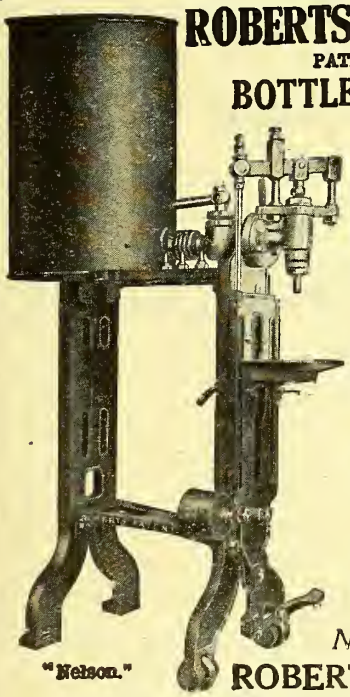

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Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

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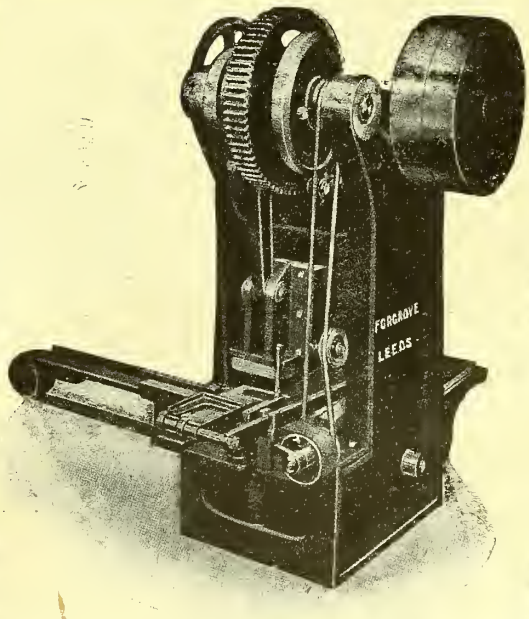

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Output, 50 pieces per minute.

THE FORGROVE MACHINERY CO., LTD.
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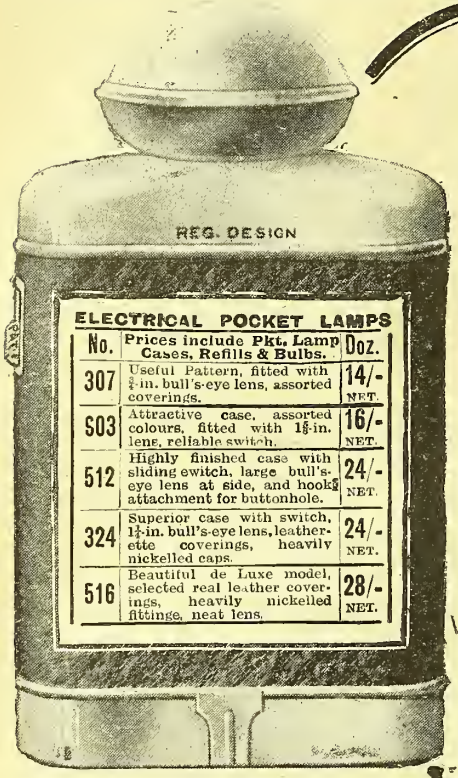

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307	Useful Pattern, fitted with ⅝-in. bull's-eye lens, assorted coverings.	14/- NET.
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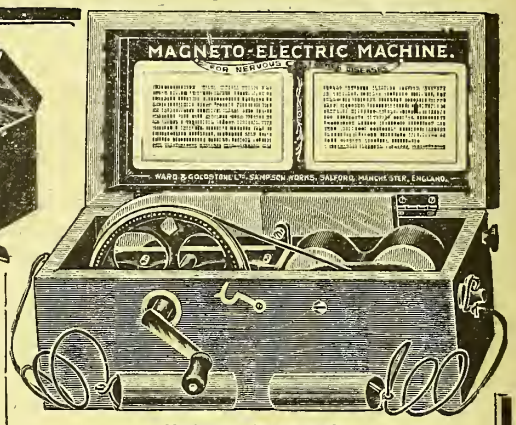

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Recommended for Rheumatism, Obesity, Paralysis, Neuralgia, Nervous Diseases, and as a general tonic for stimulating the Nerves. In handsomely finished leatherette case lined with velvet, complete with richly nickelled Electrodes, **£5 2s.** net.

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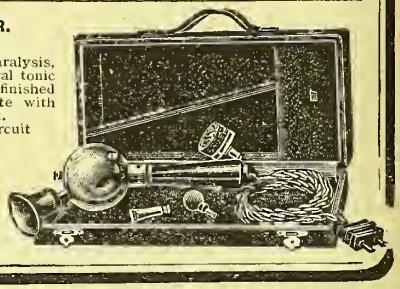

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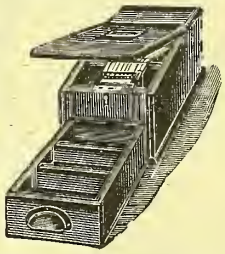

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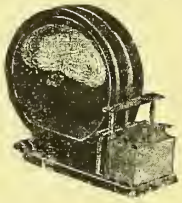

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Ask your stationer for full particulars.

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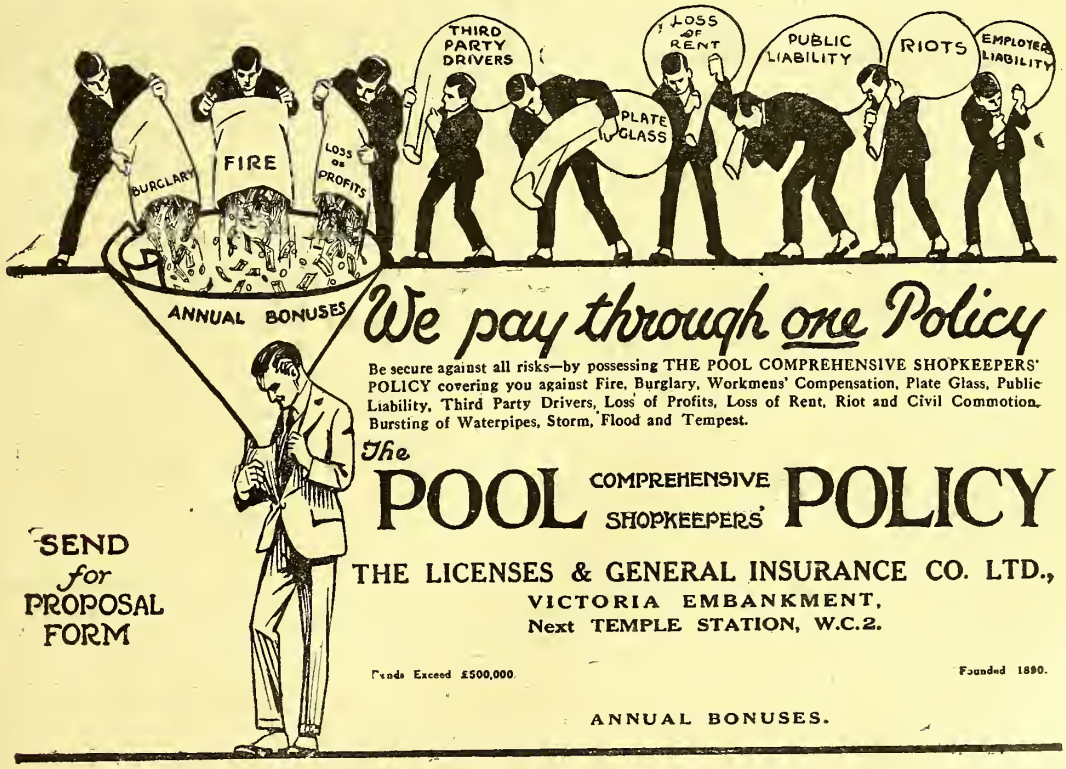

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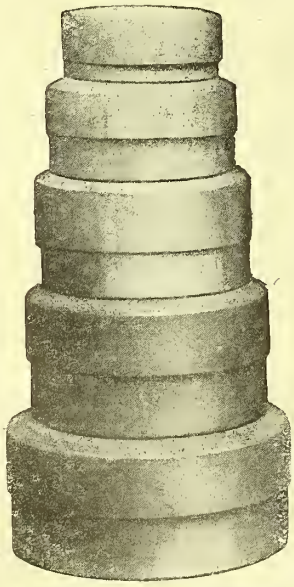

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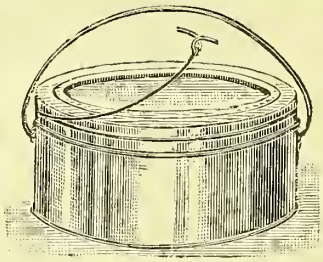

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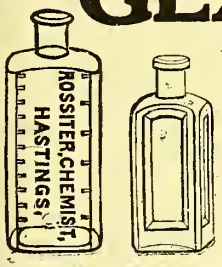

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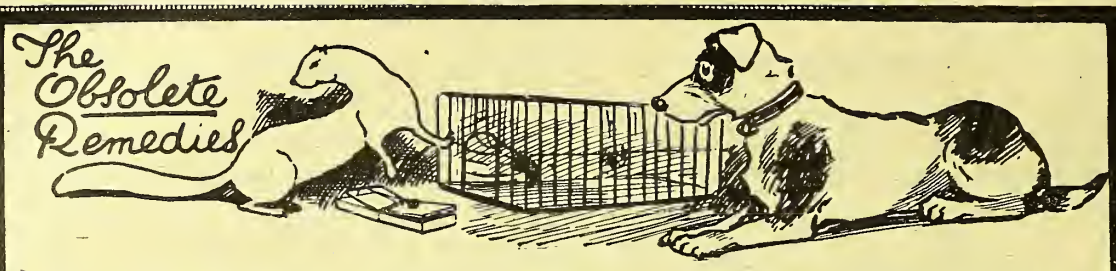

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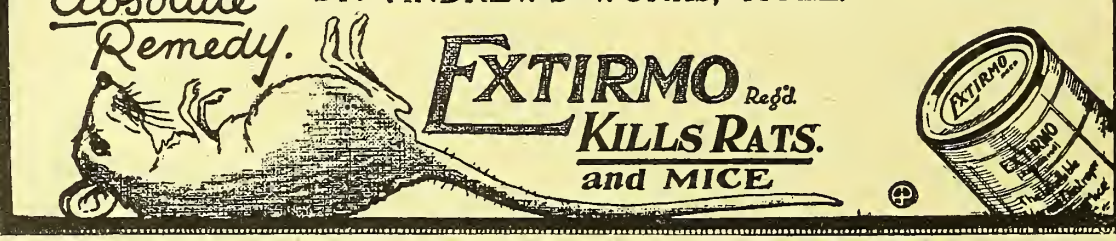

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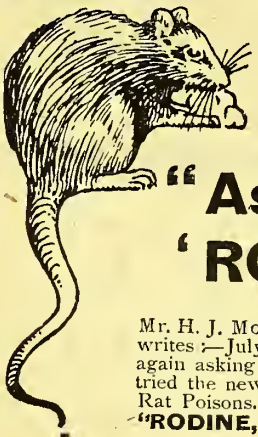

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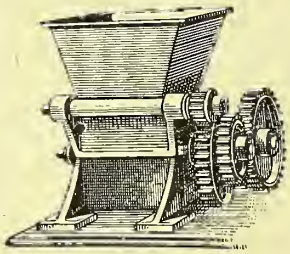

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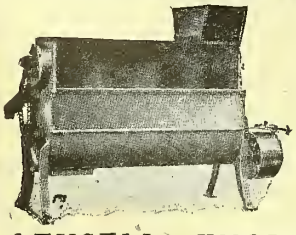

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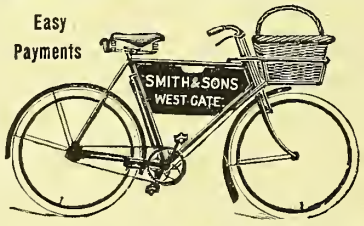

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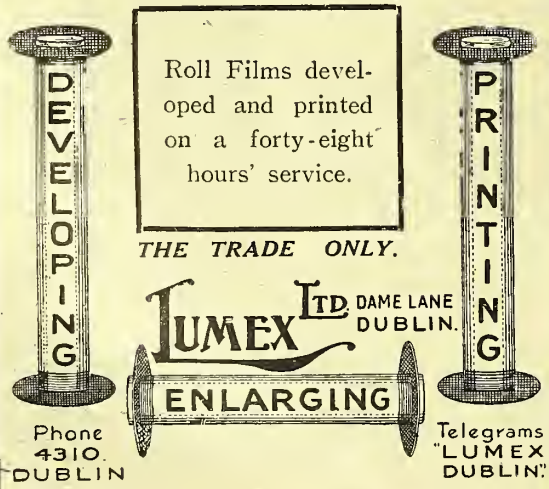

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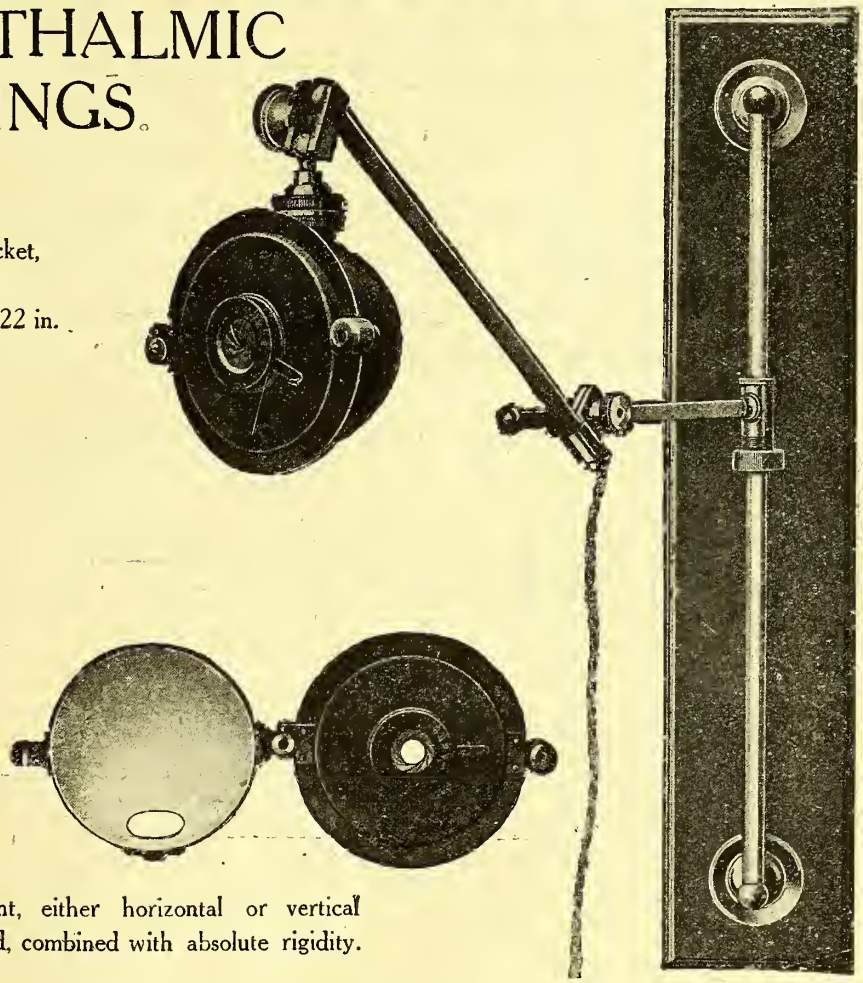

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42 CANNON ST. LONDON, E.C.4.

SEPTEMBER 11, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

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Messrs. O. & Co., desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

BUSINESSES WANTED.

1. SOUTH-EAST COAST.—Good class retail dispensing and photographic business, in best position of select seaside resort. Returns about £2,000, profits above average, low rent, on lease, good residence, fully stocked. Price £1,500; only cash buyers entertained.

2. LONDON, S.W.—Wholesale manufacturing business for disposal, comprising freehold factory, well equipped, and all in running order; fine central position. Returns nearly £7,000. Price for the freehold, plant and machinery, £2,000. Stock at valuation, reduced to suit purchaser.

STOCKTAKING.

We are now booking dates for September and October, terms sent on application.

ESTABLISHED 1870.

THE ASSOCIATION OF MANUFACTURING CHEMISTS

— LIMITED —

Chemists' Transfer Agency, Auction and Valuation Department,

Head Offices—31 Kimberley House, 14-17 Holborn Viaduct, London, E.C. 1

Telephone: City 6942. Teleg. Add.: "Asmanist. Cent, London."

Liverpool Office—35, 36, 37 Exchange Chambers, 2 Bixteth Street - - - - Liverpool

We have the following Businesses for disposal:

WHOLESALE CHEMISTS' and HAIRDRESSERS' SUNDRIES BUSINESS, situated in a central position of London, and having a very nice connection; ample accommodation, including dwelling-house; old-established, and in present owner's hands 22 years; returns £12,000 per annum; net profits £2,000; held on lease, with 8 years unexpired, at a rental of £150 per annum; sole reason for selling, ill-health; scope for great increase; full particulars on application.

PICCADILLY.—Good-class Retail Business; lock-up shop, nicely fitted and well stocked; returns, under Manager, £1,800 per annum; net profit about £350; price to quick buyer £1,250.

HAMPSTEAD (near).—Good-class Cash Business; returns £28 to £30 per week; established upwards of 80 years, and in present hands 7 years; long lease at an easy rental; price £1,300 or offer.

LONDON (Pleasant Suburb).—Handsomely fitted, double-fronted shop in busy main thoroughfare; returns about £1,650 per annum; long lease at nominal rental; excellent stock and splendid house accommodation; price for goodwill and lease, £450; stock and fixtures at valuation, about £900.

We have a number of Chemists requiring Businesses on the South Coast and West of England, and should be glad to hear from intending Vendors, with full particulars of their Businesses. Our methods are strictly confidential, and we are constantly in touch with genuine Buyers, both Wholesale and Retail. Valuations prepared for Purchase, Sale, Income Tax, Balance Sheet, Probate, etc.

STOCKTAKING IS NOW A BUSINESS NECESSITY

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(Thirty Years' Drug Trade Experience) ***Walsall.***

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Books Written Up. Balance Sheets Prepared. Prescriptions Priced.

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73 LAUREL ROAD, LEICESTER.

Telephone: 1934.

£800 RETURNS, BIRMINGHAM.—Light Artisan Retail; neglected; ample scope for increase by personal attention; fixtures, fittings, etc., £250; stock at valuation, about £250; low rent.

We have Buyers with Cash Ready for all Classes and Sizes of Businesses.

PARSON C. BAKER Ph C., M.P.S., 4 Cyprus Road, Church End, N.3

Wm. ROOKE ROBERTS, M.P.S., F.S.M.C.

174 Victoria Street, S.W.1. Tel.: Victoria 27.

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.

Recommended by The British Drug Houses, Ltd., Messrs. Meggeson Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses. Valuers to the Association of Manufacturing Chemists.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-

ADVERTISER, with capital, requires partnership, or would purchase outright the goodwill of genuine established Proprietary (Toilet, Medicinal, or Domestic Article, or Patent Medicine for Drug or Allied Business). Full details, in confidence, to "J. E. R.," c/o Chemist, Sunbury-on-Thames, with sample if possible.

ENERGETIC Pharmacist, highly experienced, desires small or neglected Business with scope for increase, or Partnership in genuine concern, Wholesale or Retail. Apply 170/22, Office of this Paper.

WANTED, small Light Retail Business; good living accommodation; Home Counties or South Coast preferred. Replies in strict confidence to "Optimus" (181/4), Office of this Paper.

WANTED, first-class Cash Retail Business; minimum turnover £5,000; situated in high-class coast or inland health resort (not South Coast); must have modern, well-fitted shop, with good storage; all compact and well organised; must have available a modern, comfortable house, with garden, near to business. Apply Hands, Chemist, Campden, Gloucestershire.

TO LET.

ROOMS to Let, suitable for Dentist or offices (non-residential). 61 West Ham Lane, Stratford.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

SOUTH AFRICA.

Firm of Manufacturers' Representatives, established over 25 years, with leading connection throughout the Union, are open for one or two more good Proprietary Lines.
Are prepared to carry stocks for manufacturers' account.
Bankers and trade references.
Address "Africa" (23/28M), Office of this Paper.

SOUTH AFRICA.—Chemist, sailing shortly, open for Agency, Drugs, Chemicals, Sundries, Surgical, Toilet, etc. Apply 180/40, Office of this Paper.

ADVERTISER, 10 years' connection throughout Scotland, Wholesale and Retail Chemists, high-class Grocers, Hairdressers, Sundriesmen, etc., desires sole selling Agencies; own office in Glasgow. 171/23, Office of this Paper.

CHEMIST, specialist, from Paris, having a large connection with the French Drug Trade, well acquainted with advertising routine, would be pleased to act as an Agent in France for English Chemicals, Pharmaceutics, Industrial Products, and Dyestuffs; first-class references. Apply to 182/1, Office of this Paper.

DISTRIBUTING Agencies Wanted for Fifeshire; traveller; motor lorries; modern and commodious factory. Smart's, Ltd., Chemists and Aërated Water Manufacturers, Methil.

ENGLISH Wholesale Druggist (Drugs, Galenicals, Tablets, Pills, Capsules, Packed Goods, Sundries. Surgical Appliances, Medical Glass) would like to correspond with a gentleman to act as Agent on the Continent. Replies, to save time, should give particulars as to territory, experience, and commission suggested. 1/19A, Office of this Paper.

FIRM of Manufacturers' Agents, with large connection throughout Scotland among Wholesale and Retail Chemists (office in central position of Glasgow), are open for an additional Agency. 175/8, Office of this Paper.

LIVE Agents wanted in all parts of the country to push the sale of our Inguinal and Scrotal Trusses; best quality material guaranteed; high-class manufacture; perfect fit; immediate despatch; generous terms; advertising literature supplied. Write for particulars at once to Gloucestershire Surgical Appliances Co., Expert Truss Manufacturers, 1 Belle Vue Lawn, Cheltenham.

LIVE Agents required for North, South, East, West London, and Midlands, with good connection amongst Chemists and Hairdressers, to carry good selling and live line on liberal commission basis; no heavy samples to carry. State ground covered in first instance to 178/27, Office of this Paper.

THE principal of an important South African firm of Wholesale Chemists now in this country requires sole Agencies for that country; first-class lines only entertained; Perfumery, Toilet Goods, and Packed Specialities. Apply 176/21, Office of this Paper.

PARTNERSHIPS.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

A FIRM whose Traveller calls on Chemists and Allied Trades is open to negotiate with another firm, whose goods do not clash, to arrange journeys together and share the expense, working such journeys with a motor. Apply, in confidence, to P.C.B. 16/6, Office of this Paper.

DIRECTORSHIP offered by well-known established Manufacturing Company (Proprietary Articles); applicant should have business experience and £1,000 capital for development purposes. 179/23, Office of this Paper.

PARTNERSHIP desired with progressive Pharmacist in need of energetic colleague with capital; 21 years' Retail experience; up-to-date, enterprising methods; genial; courteous; highest testimonials; keen business and scientific training; married; used to controlling large staffs; capable organiser; successful Salesman; would entertain Managership with prospect of early partnership or succession. Replies, which will be treated as strictly confidential, to 184/19, Office of this Paper.

PREMISES WANTED.

WELL-ESTABLISHED Manufacturing Company (Proprietary Articles) require premises in London, or would consider amalgamation with another Company. Apply 179/230, Office of this Paper.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ESSEX.—Profitable General Retail, with Photo; main street; well stocked; low rent; long lease; small residence; price £800, or near offer for quick sale. "Veneris" (P.C.B. 16/2), Office of this Paper.

NORTH DEVON (Seaside Resort).—Old-established, high-class Cash Drug Stores for disposal; well stocked and fitted; returns, present rate, nearly £2,000 per annum; net profit 33⅓%; qualified man could do much more; plenty of scope and practically no opposition; large modern house and garden attached to double-fronted shop facing sea; moderate rental; books properly kept; every inspection invited; price £1,200 for stock, fixtures, and goodwill; sound reason for selling. Further particulars will be furnished on receipt of a banker's reference. Apply "Genuine" (176/20), Office of this Paper.

WEST OF ENGLAND.—For immediate disposal, old-established, good-class Retail and Dispensing Business; returns over £5,000; price, including freehold, £5,000, but arrangements could be made for owner to let premises on rental if desired. For further particulars apply Agricola, Southall Bros. & Barclay, Ltd., Chemists' Valuers, Birmingham.

DRUG Stores for Disposal, busy manufacturing town, Essex; old-established; heavily stocked; no opposition; small house; trade £1,400 per annum; price £750, cash only. Apply 181/5, Office of this Paper.

THREE modern Pharmacies for Sale in industrial town near Manchester; all in excellent position; large turnover organised to save overhead expenses, thereby showing big profits; capital required about £12,000; would suit large progressive firm; vendor (32) retiring; genuine cash offers entertained. Apply "Cutex" (181/38), Office of this Paper.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

BEST offers for 3 gross each Quin. Bisulph., gr. 5, s.c.; Bismuth and Soda; 1 gross Dover Powder, gr. 5, all 100's, "Tabloid" brand. Apply P.C.B. 15/39, Office of this Paper.

CHEMIST'S Beam Scales for Sale (new), fixed on mahogany stand, with raising beam and adjustable legs, Agate bearings, three-inch brass pans, brass weights, with twisers, complete, 500 grains down, in mahogany box, price £4 10s. Also one ditto ditto, with steel bearings, £4. The Service Stores, 19a High Street, Southend-on-Sea.

16-FT. Wall Case, 27-ft. Drug Fixture, with 157 mahogany-fronted drawers, cupboards underneath, and bottle shelving above; Floor Sponge Case; Window Enclosure, with plate-glass shelves; etc.; good condition; cheap to clear. Skinner, Barnton Street, Stirling.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Junior Assistant, 22-25, for General Retail and Dispensing business; one seeking permanency preferred. Apply, stating full particulars and salary required, General Manager, Mayous (Chemists), Ltd., 170 Alum Rock Road, Birmingham.

BIRMINGHAM.—Qualified Assistant wanted for middle-class cash Retail with Photographic and N.H.I.; comfortable berth and permanency to right man. Reply, with full particulars, age, salary required, etc., to "Suburban" (181/18), Office of this Paper.

BIRMINGHAM.—High-class Dispensing business; reliable Junior; well recommended. State salary, 183/8, Office of this Paper.

BRISTOL.—Unqualified Assistant; must have excellent references. Apply, stating full particulars age, height, experience, salary required, etc., to S. M. Lennox, 82 Stoke's Croft, Bristol.

BURY.—Assistant, unqualified; general business with Photographic; one interested in Dental. Charnley, Chemist.

COLCHESTER.—Qualified Assistant (male) wanted for Light Retail and Dispensing Business. Apply, with full particulars, to J. F. Marlar, Chemist, Colchester.

CUMBERLAND.—Unqualified Assistant; 22 or so; end of September; smart, reliable man fairly treated as regards salary and general conditions of business; N.H.I. and Light Retail. Herbert Smith, Workington.

KENSINGTON.—Assistant (about 30) required, outdoors, in a good-class Dispensing and family business; no late duty; light Sunday duty; good experience essential. Full particulars, with photo and salary required, to W. Ive, 221 High Street, Kensington, W. 8.

LANCASHIRE Coast.—Wanted, smart, reliable unqualified Assistant (lady or gentleman), with good-class Retail Dispensing and Post Office (including telegraphy) experience; easy hours. Please state full particulars as to experience, age, height, references, salary required outdoors, 182/36, Office of this Paper.

LONDON.—Smart Junior Assistant required for Light Retail and Dispensing business; would well suit youth just out of apprenticeship. Apply "Junior" (181/8), Office of this Paper.

LONDON, E. 8.—Capable lady Assistant for N.H.I. Dispensing, Stock, and Counter; must be neat, quick, and accurate; usual particulars, references, and salary required. Waterhouse, Chemist, 186 Mare Street, Hackney.

LONDON, S.W.—An Assistant, accustomed to good-class Dispensing. Apply, with full particulars, to Amoore & Co., 173 Sloane Street, S.W.

MIDLANDS.—Junior Assistant; excellent prospects; permanent position, with progressive salary if satisfactory. Apply "Midlands" (181/80), Office of this Paper.

NORTHAMPTON GENERAL HOSPITAL.

WANTED, an ASSISTANT DISPENSER. Salary £100 and midday meal.

Apply, stating qualifications and experience, to the Secretary-Superintendent.

PRESTON.—Assistant, unqualified, about 25, required about September 20th, for Dispensing and Retail business; must be good Dispenser; about 48½-hour week. Full particulars and salary required to 181/17, Office of this Paper.

ROYAL DEVON AND EXETER HOSPITAL, EXETER.

Applications are invited for a full-time Qualified ASSISTANT in the Dispensing Department. All particulars may be obtained from the Chief Dispenser any day between the hours of 9 and 5 p.m. Applications should reach the undersigned by 11 a.m. on Wednesday, 22nd inst.

By Order of the Committee,

S. S. COLE,
Secretary.

SOUTH DEVON COAST.—Smart Junior wanted (gentleman) for good-class Dispensing and Retail; outdoors. Apply, with full particulars of experience and salary required, 180/33, Office of this Paper.

ST. ANNE'S-ON-THE-SEA.—Unqualified Assistant or Apothecaries' Hall, for Dispensing Counter; outdoor. Please state age, height, references, salary required, and enclose photo (to be returned), J. H. Taylor.

TORQUAY.—Junior, about 22, for Dispensing and Photographic business; permanency for man not afraid of work requiring experience. Give particulars, experience, references, salary required, to Mr. Meyer, Badham & Sloman, Dispensing Chemists, Union Street, Torquay. Tel. address "Dispensing, Torquay."

AN experienced Counterman, about 30, for first-class business; must have had good experience in similar post; unqualified; easy hours; outdoors. Apply, with photograph, references, and full details of experience, to Ralph Cuthbert, Ltd., Chemists, Huddersfield.

ASSISTANT for Counter and Window-dressing; Salesman. Apply, giving usual particulars, salary required, and when disengaged, to C. A. Maries, Pharmacist, Waterloo, Liverpool.

ASSISTANT; unqualified; outdoors; must be smart Counterman. Apply, giving usual particulars, to Colmans, Limited, 161 Bury New Road, Manchester.

ASSISTANT wanted, with good experience of Dispensing and Counter trade. Apply, stating experience, age, and salary required, with photograph (to be returned, to Lands, Ltd., Coalville, Leicester.

ASSISTANT; unqualified; accustomed to quick, high-class business and Photography. State salary (outdoors), and enclose photo, to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

CHEMIST, qualified, wanted to manage branch shop. Apply, stating age, experience, and salary required, with copies of not more than two recent testimonials, to Co-operative Society, Newgate Street, Newcastle.

COMPETENT Assistant required first week in October; married preferred. Reply, giving full particulars, salary required, etc., Hillman Attwell, Pharmacist, Cranleigh, Surrey.

COUNTER SPECIALITY DEPARTMENT.—Wanted, for a leading house, competent Manager with first-class experience and references. Apply, with full details of age, experience, and salary required, to 35/348, Office of this Paper.

DISPENSER (male) wanted by Medical Practitioner; ten minutes from London Bridge; every afternoon free; easy hours. Apply by letter, Dr. Davies, 22 Wolseley Street, Dockhead, Bermondsey, S.E.

F. M. RIMMINGTON & SON, Ltd., Chemists, Bradford, have a vacancy for a well-educated youth as Apprentice. Please give full particulars.

QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, LONDON, E. 15.

DISPENSER wanted. Applicants must have the M.P.S. qualification and have had previous Hospital experience. Apply, stating salary expected, and enclose copies of recent testimonials, to A. W. SCRIVENER.

EMRYS EVANS, Victoria Pharmacy, Aberdare, requires a smart Salesman; must be well recommended and accustomed to Counter work. Full particulars in first letter.

FULLY-QUALIFIED Shop Assistant required at once, for London branch. Apply, with fullest particulars, salary required, to the Casson Chemical Co., Ltd., Westbourne Hall, Westbourne Grove, London, W.

GENTLEMAN required (September 20) as Dispenser in Surgery; unfurnished rooms if married. Address, with reference, stating age, experience, and salary, to Dr. Thornton, 573 Romford Road, Forest Gate, E. 7.

GOOD qualified Locum, not over 45, good references, for fortnight to commence September 23rd or 24th. "Chemist," 114 Coventry Street, Kidderminster.

HIGH-CLASS Family and Dispensing Business in the Midlands has a vacancy for a Senior Assistant, who has had excellent all-round experience; competent and reliable. When applying, please state age, etc., and usual particulars, to "Aspirin," c/o British Drug Houses, Ltd., Graham Street, City Road, London, N.

IMPROVER for S.W. District; must be smart and have first-class references. Apply Morton's Cash Chemists, Ltd., 298 Harrow Road, Paddington.

JUNIOR Assistant wanted at once; for good-class Store trade. Durbins Drug Stores, 50 The Broadway, Wimbledon, S.W. 19.

JUNIOR Assistant required in Light Retail, Dispensing, and Photographic business; outdoors; hours 8.30 to 7.30; no Sunday duty; state experience and salary required. H. S. Cox, Chemist and Optician, Kettering.

JUNIOR Assistant required; state age, experience, and salary required. Apply "North" (181/800), Office of this Paper.

JUNIOR Assistant (unqualified) required for good-class Dispensing and Retail business; must be accurate Dispenser. Apply, giving usual particulars and salary required (outdoors), to A. H. Price, Chemist, 2 Guildford Road, Woking, Surrey.

JUNIOR Assistant wanted, early October; state full particulars. Hague, Chemist, Lincoln.

JUNIOR Assistant wanted (outdoors) about October 6th in West Wilts. Apply, stating full particulars as to age, experience, and salary required, "H. T." (180/37), Office of this Paper.

JUNIOR Assistant wanted (outdoors) about September 20th. Apply, stating full particulars as to age, experience, and salary required, to Gregory & Wrenn, Chemists, Taunton.

JUNIOR, with good experience in Dispensing business (outdoors). State age, height, previous engagements, salary required, and when disengaged, to W. J. I. P., c/o Sharpe & Son, 34 High Street, Notting Hill Gate, W.

JUNIOR or Improver (male) wanted in good-class Family and Dispensing business (indoors); one just out of apprenticeship. Apply personally, or if by letter with photo, stating salary expected and full particulars, to David Anderson, Chemist, Crouch End, N. 8.

LADY Dispenser required for Doctor's Surgery; hours only 11-11.30, 6.45-8.45 weekdays; suit one living at home in S.W. district requiring only part-time work. Apply, by letter, Doctor, 331 Queen's Road, Battersea Park, stating age, experience (not essential), salary required, etc.

LADY Assistant (Junior) required (at once) for Dispensing, Counter, and Stock; must be smart, obliging, and experienced. Please reply, giving experience, when disengaged, references, etc., and photo, to be returned, to Gibbs, Pharmacy, Berkhamsted.

MANAGER required October 1st or shortly after for good-class Dispensing business in West of England; live on the premises, or temporary accommodation might be arranged. Apply, with as full particulars as possible in first letter, to Arnold, 1 Old Tiverton Road, Exeter.

MESSRS. ANDERSON & VIRGO, Chemists, Worcester, have a vacancy for competent, reliable, gentlemanly Senior Assistant, principally for front Counter; must have had good all-round experience. State age, references, salary required, and enclose photo if convenient.

PART-TIME in return for rooms, furnished or unfurnished; married man, with good experience. Apply West End (183/17), Office of this Paper.

SMART, unqualified Assistant wanted; age 22 to 25; single; hours 8.30 to 7.30, Wednesdays 8.30 to 1, Saturdays 8.30 to 9; no Sunday or Bank Holiday duty. Fullest particulars as to salary, previous experience, etc., in the first instance, W. H. Dixon & Sons, Ltd., East Grinstead.

SURGICAL.—Trained Nurse, with a selling experience, required to take charge of Surgical Section; thorough knowledge of Surgical Fittings essential. Apply, stating full particulars of experience, age, and salary required, to Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W. 1.

UNQUALIFIED Assistant; Dispensing family trade; must be competent. Salary and usual particulars to O. M. Ward, 455 Anlaby Road, Hull.

UNQUALIFIED Assistant required; Counterman and Window-dresser. State age, experience, and salary required, enclose photo if possible, W. T. Hicks & Co., 28 Duke Street, Cardiff.

UNIQUE prospects.—Wanted, by successful firm (West End and Central London), a smart qualified Assistant, about 33, of decided business ability, having small capital; good London and varied experience essential; gentlemanly, active, sober, attentive, and well recommended; send references (strictest investigation), age, height, photo, and full particulars. Kingham (P.C.B. 16/9), Office of this Paper.

WANTED, an Assistant, with good Dispensing experience; indoors; very comfortable home. Apply, with full particulars of experience, salary required, etc., to E. C. Perks & Co., 1 Sloane Square, S.W. 1.

WANTED, fully-qualified Chemist; part or whole time. P.C.B. 16/5, Office of this Paper.

WANTED, good Junior or Improver, end of September, for General Retail, Agricultural, and Dispensing business; market town; easy hours; no Sunday duty; abstainer preferred; give experience, references, and salary expected (outdoors). Geo. Senior, Holsworthy, Devon.

WANTED (immediately), for Light Retail and Dispensing business, easy hours, Junior Assistant (lady, Hall qualification preferred); must be capable Dispenser, and have had some Counter experience; state usual particulars, with salary required, and enclose photo. Walker, 9 Hospital Street, Nantwich.

WANTED, Junior Assistant for good-class Dispensing and Photographic business; please state age, experience, and salary required (outdoors). C. W. Higgins, 47 Market Place, Salisbury.

WANTED, unqualified Junior Assistant for October 1st; knowledge Photography essential; must have good reference; outdoors. Please state full particulars in first letter, Nidd, Chemist, 714 Rochdale Road, Manchester.

WANTED, young unqualified Assistant; one just finished apprenticeship not objected to. Apply, stating wages (outdoors), Hockin, 5 Lewes Road, Brighton.

WANTED, an Assistant for a small country business near Liverpool; one used to Dispensing. Apply, stating salary required, experience, and references, to 183/200, Office of this Paper.

WANTED, experienced Assistant for Prescribing, Dispensing, and light Retail in the South-west; principal would slide out for a suitable man, who must be a good worker; state details of experience. 182/40, Office of this Paper.

WANTED, Junior for brisk Dispensing business in Cheshire; must be energetic and well recommended. State age, salary, and experience to 183/20, Office of this Paper.

WHOLESALE.

SCOTLAND.—Representative, with live connection, wanted immediately for Scotland by well-known firm manufacturing Pills and Tablets; commission basis; part-time not objected to if other lines do not clash; applications, giving full particulars, will be treated in strictest confidence. Replies "Aloes" (16/3K), Office of this Paper.

A QUALIFIED Firm, manufacturing Packed Goods for Chemists' and Allied Trades, also Toilet Articles and other goods suitable for such trades, is anxious to find a Representative, resident in Birmingham, who could take up that centre and the Potteries on a substantial commission basis; we should have no objection to a gentleman who carries other lines that would not clash with the house in question; applications will be treated with very confidence. Apply P.C.B. 16/7, Office of this Paper.

ADVERTISING.—Large London firm has a vacancy in its Advertising Department, suitable for recently qualified Pharmacist, with taste for writing and compiling advertising matter. Send full particulars of age, qualifications, previous occupation, etc., to 4/50B, Office of this Paper.

BUYER for Druggists' Sundries required; state experience, age, and salary required. Apply 1/190, Office of this Paper.

CANADIAN Manufacturer of Toilet Requisites, such as Perfumes, Tooth Paste, Powder, Vanishing Cream, etc., is opening a London branch for the sale of these products, and requires capable man with selling experience above lines. Write, giving full particulars, T. R., Box 601, Benson's, Kingsway Hall, Kingsway, W.C. 2.

CHOCOLATE and Coloured Sugar Coater required to demonstrate to present staff for about seven days; expenses and £5 bonus. Apply 181/29, Office of this Paper.

INTELLIGENT Improver required with knowledge of manufacturing Toilet Preparations; good prospects for progressive and enterprising man. Full particulars to 36/36S, Office of this Paper.

JUNIOR Invoice Clerk wanted by London Wholesale Druggists. Apply, stating experience and salary required, to P.C.B. 4/13, Office of this Paper.

PERFUMER wanted, with expert knowledge of Toilet Creams, Powders, etc., to manage for Wholesale House; must have had previous Wholesale experience. Apply, by letter, stating salary required, P.C.B. 16/3, Office of this Paper.

PHARMACEUTICAL Chemist required by Wholesale house to test Drugs and Chemicals, and to assist in the bringing out of new high-class Toilet Preparations; permanency and good prospects. Please apply 181/9, Office of this Paper.

REPRESENTATIVES WANTED.—The Proprietors of a well-known and widely advertised Medicinal Water are prepared to appoint gentlemen calling on Chemists, etc., in Lancashire, Yorkshire, and Midland Counties. Applicants should state what lines they at present carry and districts covered, terms expected, and experience. Applications will be treated confidentially. Write Box 450, c/o Mitchell's Advertising Agency, 1 Snow Hill, E.C. 1.

REQUIRED, for the sale of Soap, first-class Traveller calling on Wholesale Chemists and Druggists. Apply, giving full particulars as to age, experience, salary required, etc., to 4/52B, Office of this Paper.

REQUIRED at once, by well-known Wholesale house in the North of England, a qualified man to take charge of Wet Room; must have thorough knowledge of the Wholesale trade. Apply, stating fully previous experience, salary required, etc., to W. P. B. (13/19G), Office of this Paper.

SMART progressive Representative wanted to sell Hill's and Elite Specialities in Scotland. Apply The Spa Toilet Co., Leamington.

SMART whole-time Travellers wanted, London and suburbs (one North and one South of Thames), to call on Chemists and Perfumers with series of easy selling Toilet Preparations; must have established live connections on ground specified; references required; terms £10 per month and 7½ per cent. commission on approved orders. Write full particulars "A. H. S." (15/13J), Office of this Paper.

SURGICAL DEPARTMENT.—Wanted, Assistant for department; must have a general acquaintance with commonly used surgical instruments and appliances, and some knowledge of fitting artificial limbs, leg-irons, trusses, etc. Apply, stating age, salary, and experience by letter, marked "Surgical," to Brady & Martin, Ltd., Northumberland Road, Newcastle-upon-Tyne.

TRAVELLER required, capable of calling on both the Wholesale and Retail trade for Proprietary lines. Write briefly, stating experience, salary expected, and references, to 179/29, Office of this Paper.

TRAVELLERS on commission (those already calling upon farmers and stockkeepers for the sale of Cattle Foods or Oilcake) required by Veterinary Medicine Manufacturers. Applications, with full description of experience and territory covered, to be addressed to 4/51B, Office of this Paper.

TRAVELLERS.—Wanted, three or four really good men for country, S.N. Eastern Counties and Scotland; only those with established connection need write; good lines at competitive prices; commission basis. Ross Manufacturing Co., Wholesale Chemists, 92 Kirkdale, Sydenham, S.E. 26.

WANTED, for London, Laboratory expert manufacturer of Hair Dyes and Toilet Preparations, with knowledge of Analytical work preferred; new business; good prospects; state age, experience, and wages required. Write 175/20, Office of this Paper.

WANTED, Sales Manager of experience in home and export trade to organise and develop existing large business in well-advertised proprietary article; opportunity to earn in addition to salary of £600 another £400 in commission with further increase. Apply, with full particulars, 178/25, Office of this Paper.

WORKS Chemist required by old-established Essence Distillers and Manufacturing Chemists; must be experienced in Pharmaceutics, including manufacture and analysis of Essential Oils, Synthetics, etc., and in the erection of plant, to assist and when required take charge of manufacturing processes, assay of raw materials, also to conduct research, improve and initiate new products; position offers scope and permanency to man of ability, energy, and originality. Apply, stating age, salary required, references, and general experience, in confidence, to 14/24H, Office of this Paper.

YOUNG Man, with some experience of Pill Coating, required by London Wholesale Druggists. Apply 5/28C, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

STRAITS SETTLEMENTS.—Required (immediately), Assistant, young, unmarried, with Chemist's qualification; one with Optical qualification preferred; four years' agreement; passage paid out and home; salary first year £420, second and third years £455, fourth year £490. Apply W. C. H., Burgoyne, Burbidges & Co., Ltd., East Ham, London, E.

SALES Manager for Australian Branch (Sydney).—An established firm of Import and Export Merchants in Surgical Dressings, Pharmaceutical and Toilet Products, and controlling important agencies in Australia, require the services of a gentleman of good education, with executive and salesmanship ability, qualified to take charge of and instruct travelling staff and generally be able to promote sales. Applications may be addressed in confidence, stating full experience and qualifications for a post of responsibility, to Principal, c/o Mitchell's Advertising Agency, 1 Snow Hill, E.C. 1.

UNQUALIFIED.—Truss and Elastic Hosiery Fitter, with knowledge of Surgical Instruments, wanted for South Africa; must be unmarried and of good address; passage paid out; young, unqualified Assistants possessing the required knowledge open to go abroad should apply 21/11L, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—LOCUM; 46; disengaged; excellent testimonials; take entire charge; fare one way; moderate terms. "Chemicus," 2 Christian Road, Preston.

A.A.—AS Senior or Managing Assistant; 39, single, tall; organising ability (strongly recommended by present Chemist); 23 years' experience in all branches of trade; disengaged end of September; permanency only. "T. H.," 87 Pontcanna Street, Cardiff.

A.A.—PHARMACIST (25), College Silver Medallist in Pharmacy and Dispensing, requires permanency where ability and energy are recognised; highest references; disengaged. Mylroi, 5 Wellington Street, Louth, Lincs.

A.A.—PHARMACIST, 27, single, demobbed officer, requires post in London or South Coast as Manager, or with view to succession; well recommended. Apply "Merit" (183/12), Office of this Paper.

A CAPABLE and energetic Pharmacist desires situation with Chemist (desirous of retiring from active business), with view to succession; excellent references. State terms, 182/34, Office of this Paper.

A M.P.S. (26), with a good knowledge of Optics, desires change nearer home (Manchester); abstainer and non-smoker; £4 15s. or salary and commission. Apply 179/21, Office of this Paper.

A QUALIFIED Chemist (43), Locum or permanency; references speak for themselves. Aspirin, 126 Coventry Road, Birmingham.

A QUALIFIED Pharmacist, aged 40, London and district, willing to undertake duty Saturday afternoon and evening, also Sunday. 184/8, Office of this Paper.

A YOUNG, energetic, qualified Chemist requires progressive berth; will go anywhere. James, c/o 26 Severn Terrace, Worcester.

ADVERTISER, ex-Service, age 29, 11 years' Pharmaceutical experience, several years abroad, requires position, home or abroad; highest references. Apply 182/23, Office of this Paper.

ADVERTISER, 24, tall, and of good address, desires post as qualified Assistant; home or abroad; fluent French. Apply 173/4, Office of this Paper.

ADVERTISER (24), tall, qualified, first-class experience in London and Provincial Pharmacies, seeks post; disengaged October 4th. W. K. Fitch, "Copthorne," Windmill Road, Clapham, S.W. 4.

AN active, qualified Chemist (36) seeks position with good firm; 8½ years' successful London Managership; business substantially increased; West-End Dispensing experience. "M.P.S.," 8 Priory Villas, Friern Barnet, N. 11.

AN active and up-to-date Pharmacist, wide experience as Manager, Locum, or Controller, where a business man is required. Chemist, 4 St. Andrew's Square, Surbiton.

APPRENTICE; London; Coll. of Preceptors; age 17. R. D., c/o Davies, Drug Stores, 9 Electric Parade, Holloway, N. 7.

AS Dispenser or in Light Retail, with view to learning. Young lady (20), Hall qualification, four years' Hospital experience, seeks post as above. E. Walker, Royal London Ophthalmic Hospital, City Road, E.C. 1.

AS Locum; 46; disengaged; take entire charge; excellent references; good Salesman and Dispenser. "Pharmacist," 5 Marton Road, Middlesbrough.

AS Locum or permanency; excellent references and experience; reasonable terms; disengaged. "Chemist," Prospect Cottage, Budleigh Salterton, South Devon.

AS qualified Manager (32); married; disengaged shortly; good all-round experience; Optics. 184/3, Office of this Paper.

ASSISTANT, Junior, aged 20, 6 feet, West-End experience, good Dispenser, requires Assistantship in London. Student (184/35), Office of this Paper.

ASSISTANT or Manager; experienced, competent; highest references; young, qualified, single, abstainer. Apply 182/5, Office of this Paper.

ASSISTANT, qualified, 51, disengaged, desires situation; varied all-round experience; reliable and painstaking; Midlands preferred, not essential; moderate salary. Apply 181/36, Office of this Paper.

ASSISTANT seeks management Drug Store, work up neglected one, or consider purchase; steady, obliging. "Zepto," 90a Pearcroft Road, Leytonstone, E. 11.

ASSISTANT; 27, married; reliable, energetic; Dispensing, Counter, and Photographic; able to take charge; North Country preferred. Apply 181/21, Office of this Paper.

ASSISTANT (27), Student-Associate, tall, well educated, 11 years' experience good-class Retail, Photography, Manufacturing, capable taking charge or managing Drug Store, desires post Retail or Wholesale. Kindly state salary, "Optimus" (184/13), Office of this Paper.

ASSISTANT, unqualified, 27, experienced Dispensing, Counter, and Photography, desires permanency in good-class business; 10 years' experience; Student Associate; used to high-class business in S. Devon; reasonable salary. 182/11, Office of this Paper.

ASSISTANT; unqualified; 45; full or part time; present berth 7 years. G. F., 4 Wentworth Road, Manor Park, E. 12.

ASSISTANT, unqualified, 34, married, desires permanency; London district; reliable Dispenser; excellent references; disengaged September 11th. Apply 181/3, Office of this Paper.

ASSISTANT; unqualified; 24; single; four years' pre-war N.H.I. Dispensing, Counter, Photography; London district, East preferred; disengaged September 13th; salary £3 10s. Apply 170/14, Office of this Paper.

ASSISTANT, unqualified (26); 10 years' experience in Dispensing, Photo, and Counter; good references, and capable of being left in charge. Kindly state full particulars and salary, 184/4, Office of this Paper.

ASSISTANT or Manager, branch or otherwise, thoroughly experienced at Counter, Dispensing, Window-dressing, and Photography, tall, abstainer, best of references, desires berth where house available; quite accustomed to management. Please say hours of business, salary offered, "Unqualified" (183/37), Office of this Paper.

ASSISTANT or Manager; 30; unqualified, abstainer, reliable; 14 years' experience; highest references; permanency; South Coast, Brighton, or near; disengaged early October. Apply 147/33, Office of this Paper.

ASSISTANT; unqualified; ex-Service; disengaged; nine years' pre-war experience. Please give full particulars to "J.," 55 Burnley Road, Ainsdale, Southport.

ASSISTANT, unqualified (23), accustomed to good-class Dispensing, Counter, Photography, desires post London; highest references; previous London experience. Williams, No. 1 Spring Gardens, Narberth, Pembrokeshire, South Wales.

ASSISTANT; 6 years' experience Dispensing, Photography, Window-dressing, and Counter; disengaged at the end of September. Please state salary, A. D. B., 62 Quay Road, Bridlington.

ASSISTANT (25), 11 years' first-class Dispensing business experience; please state fullest particulars hours, etc.; Provincial. S. C. Haigh, 25 Stafford Parade, Halifax.

BOURNEMOUTH or DISTRICT.—Advertiser (male, single) seeks part-time employment in October; evenings and half-day Saturday; 10 years' all-round Retail experience; energetic and reliable. Apply 180/9, Office of this Paper.

CAPABLE, experienced, all-round man, used to entire control of large business, seeks new position as qualified Manager; South preferred. Full particulars and highest references, 182/22, Office of this Paper.

CHEMIST, having recently disposed of his business, seeks berth as Manager; married (no children); moderate salary for comfortable permanency. Good varied experience; very successfull; highest references; disengaged. "Reliable," 183/1), Office of this Paper.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (124/34), Office of this Paper.

DISENGAGED, qualified, æt. 46, wide experience; Manager or Senior; London preferred; temporary or permanent. "Chemist," 108h Elgin Avenue, W. 9.

DISENGAGED; qualified; single; 32; Locum or permanent; good references; any capacity; Midlands or North preferred. Cottman, Clear Mount, Dorchester, Dorset.

DISENGAGED; qualified (25); good retail and dispensing experience; with knowledge of Photography. Apply 182/37, Office of this Paper.

DISPENSER (Hall certificate) requires post with Doctor or Chemist; 4½ years' experience. Apply P.C.B. 15/32, Office of this Paper.

DISPENSER (Hall), daily, lady; five years' Institution experience; excellent references. Miss B. Warrington, 48 Buckleigh Road, Streatham.

DISPENSER (qualified) requires post; South Coast preferred; experienced Bookkeeper; references. Farrow, 65 Mayfair Avenue, Ilford, Essex.

DISPENSER (Hall), lady, experienced Hospital; Institution; Surgery; excellent testimonials; London or near. M. D., 42 Oakford Road, N.W. 5.

ELDERLY Chemist, M.P.S., desires engagement as Locum or otherwise; moderate terms. Apply "Lewis" (181/11), Office of this Paper.

EVENINGS, three or four per week; quick and reliable Dispenser; excellent testimonials. Green, 4 South Park Parade, Ilford.

EXPERIENCED Assistant, unqualified, disengaged; country preferred. Replies 184/20, Office of this Paper.

EX-SERVICE man seeks employment with first-rate London Pharmacist, view to qualifying; age 22, tall; good knowledge Photography; Matriculated (London) Chemistry and Physics; highest references. Apply 35/35S, Office of this Paper.

FRENCH-Assistant seeks for first-class Dispensing and Retail in London. Apply 175/10, Office of this Paper.

G. A. MALLINSON, Ltd., Withington, have every confidence in recommending their late Assistant, now qualified; excellent Dispensing and Counter experience; Manchester district preferred. A. Hirst, 15 Victoria Road, Withington, Manchester.

G. KNOWLES, Pharmacist, Harborne, strongly recommends his late Assistant as Manager; married, 26; competent, energetic, and absolutely reliable; Minor qualification; excellent references from apprenticeship to date; free mid-October. "Chemist," 3 Kensington Gardens, Balsall Heath Road, Birmingham.

GOOD all-round man requires permanency in London; 30 years' practical experience on own account; efficient Prescriber, Salesman, Window-dresser, and Speciality Promoter; unqualified. Apply "Fifty," 13 Holland Road, Brixton, S.W.

LADY Dispenser, five years' experience, requires post end of September. "X.," c/o Mrs. Bell, Market Place, Wilton, Salisbury.

LADY Dispenser (Hall) desires post in high-class Pharmacy; thoroughly experienced; well recommended. Apply 182/13, Office of this Paper.

LADY Dispenser (Hall) desires post with Doctor, Hospital, or Chemist. Apply "D. M. B.," 63 Aitken Street, Accrington.

LADY Dispenser (Hall); experienced; disengaged September 20; Locum or permanent. Miss Rawcliffe, 17 Star Street, Higher Broughton, Manchester.

LADY Dispenser (Hall) seeks Apprenticeship for Minor with Chemist. "W.," Castleacre, Twyford, Berks.

LADY Dispenser (Hall), with excellent references and experience, requires post; Institution or Doctor preferred. Wade, Parkgate, Southampton.

LADY Dispenser (Hall), two years' experience, requires post with Doctor, Hospital, or Institution. Apply Allanson, Mornings Mill Farm, Willingdon, near Eastbourne, Sussex.

LADY Dispenser (Hall) desires Locum or permanent post; good Hospital experience; excellent testimonials. Leeder, Draycot Road, Wanstead, E. 11.

LADY Dispenser (Hall) requires post with Doctor or Chemist; two years' experience. G. Evans, Sunnybank, Uplands, Swansea.

LADY, Minor, experienced all branches; highest references; permanency; not afraid of work. Moss, c/o Driver, Chemist, Long Sutton, Lincs.

LADY Typist, 12 years' experience in Drug and Chemical trade, desires post as Shorthand, Invoice, or Order Clerk. Address Miss Baldwin, 39 Jedburgh Street, North Side, Clapham Common, S.W. 4.

LIVERPOOL.—Unqualified, good general experience; not afraid of work; interview by appointment in district. Advertiser, 9 Toft Street, Holt Road, Liverpool.

LOCUM, experienced and reliable, recommended by best "houses"; over seven years' references; disengaged September 11th. March, 10 Milward Crescent, Hastings.

LOCUM Manager, entire control; 25 years' experience; 6 ft.; West Country preferred. "Major," Brooklands, Forest Moor, Knaresborough, Yorks.

LOCUM; London or provinces; highest references; well recommended; winter terms. "Beta," c/o 35 Bon Lea Terrace, Mandale Road, Thornaby-on-Tees.

LOCUM, Manager, or part-time; free September 18. Apply Chemist, 58 Anerley Road, S.E. 19.

LOCUM; disengaged September 20; minor; 53; country; moderate terms; energetic; first-class experience and references; Photography, Optics. Dewey, Mr. Maundrell's, Chemist, Milton, Sittingbourne.

LOCUM Tenens; middle-aged; all-round experience; disengaged September 20. "Locum Tenens," 6 Capel Street, Newport, Mon.

LOCUM TENENS; qualified; accustomed to management; free September 25; excellent references; 43; energetic; moderate terms. "Pharmacist," 183/36, Office of this Paper.

MANAGER; qualified; Locum or permanency; provincial, seaside, and London experience; good references; disengaged now. Furnival, 28 Melrose Avenue, Cricklewood.

MANAGER; qualified; long experience London and country in all branches; married; permanency; smart Window-dresser, Prescriber, and Dispenser. Particulars, with salary, to "P.C.B." (16/10), Office of this Paper.

MANAGER or Locum; qualified; excellent Dispensing, Photographic, and Retail experience; highest references; married. 183/19, Office of this Paper.

MANAGER or Locum; qualified; middle-aged; energetic; abstainer; of proved trustworthiness and trade-increasing capability (see perfect references); moderate salary. 183/10, Office of this Paper.

MANAGER or Senior; qualified; 44; town or country; temporary or permanent; highest references; salary equivalent £8 weekly; disengaged. A. V. Dewdney, 27 Manor Road, South Norwood, S.E. 25.

MANAGER or Senior (38), qualified; wide experience as Assistant and Manager; good organiser; fluent French; town or country. Scott, 57 Cartwright Gardens, W.C. 1.

MANAGER, with view to succession; London or South of Thames. Usual particulars to "Qualified" (183/30), Office of this Paper.

MANAGING Assistant; competent, trustworthy; thoroughly experienced all class; good salesman, window dresser; disengaged. Chemicus, 3 Godfrey Road, Newport, Mon.

PART-TIME, relieve one evening a week and Sundays; take charge; best references. Apply 181/13, Office of this Paper.

PHARMACIST, at present successfully Managing, desires change. Terms to Judex, c/o 1 Lichfield Street, Burton-on-Trent.

PERMANENCY or Locum; capable Manager (40); unqualified; 25 years' all-round excellent experience. "Statim," 1 Belle Vue, Pinner, Middlesex.

QUALIFIED man desires situation, Manager or Assistant; disengaged September 20th. Chambers, 2 Noel Street, Kimberley, Notts.

QUALIFIED man, middle-aged, for N.H.I. work; part-time only; Blackpool district. Apply 179/37, Office of this Paper.

QUALIFIED recently (24), desires permanency; London or suburbs preferred, but not essential; interview arranged. Wicks, Middleton, Hassocks, Sussex.

QUALIFIED, 28, gentleman, good appearance and personality, excellent all-round experience and references, desires position immediately. Assistant or Manager; reasonable salary. Apply 179/20, Office of this Paper.

QUALIFIED (23) desires post in Institution or with Chemist; good references. V. Oakes, Homestead, Brownhills, Walsall, Staffs.

QUALIFIED, 23, ex-Service, desires Counter experience; reasonable salary. Apply 181/19, Office of this Paper.

QUALIFIED wishes situation in Scotland; first-class experience Dispensing, Photographic, and Counter Work. Full particulars and references, apply 182/12, Office of this Paper.

QUALIFIED Manager or Locum disengaged; West End, City, or good Suburban. Smith, 113 Brudenell Road, Upper Tooting.

QUALIFIED Manager, Locum, Assistant; thoroughly experienced; reliable and trustworthy; excellent references; disengaged. "Idem," 58 Clapham Park Road, Clapham.

QUALIFIED (24), disengaged, requires berth in London. Please send particulars to F. L. Taylor, 60 Tyrrell Road, E. Dulwich, London, S.E. 22.

QUALIFIED, lady, Minor, West-End and General Retail experience, desires post in London. Miss Winser, 18 Drakefield Road, S.W. 17.

QUALIFIED, disengaged, desires post as Assistant; young, energetic; excellent references. C. Jay, Station Road, Sudbury, Suffolk.

QUALIFIED, lady, requires permanency; Hospital preferred; previous experience; excellent testimonials. Boyce, Mildenhall, Suffolk.

QUALIFIED Manager, permanent or temporary, or Locum; excellent experience; abstainer; middle-aged; active, reliable. Underwood, 47 Leominster Road, Wallasey.

QUALIFIED (42); experienced Branch Manager; reliable and successful; permanency or Locum; disengaged 18th. "Ferrum," 29 Cleveland Street, Wolverhampton.

RELIEF.—Locum, permanent, or relief for stocks, Counter Dispensing, Photography; window dressing a speciality; thoroughly competent, experienced, reliable, energetic; disengaged; reasonable terms. Chemicus, 239 Camberwell New Road, S.E. 5.

RELIEF work in London; hour, day or week; Dispensing, prescribing, bookkeeping, stock; competent and reliable. References and terms from Chemist, 190 Amhurst Road, E. 8.

SENIOR qualified, with every possible experience of Retail Trade (English, Indian, Colonial) desires engagement in West of England. A. F. Collis, 3 Margaret's Buildings, Bath.

UNQUALIFIED; six years' experience Counter and Dispensing; smart appearance; height 5 ft. 10 in.; 24 years of age; excellent references; permanency desired. Particulars "Energy," 31 Princes Street, Kettering.

WHO is in need of two reliable and energetic gentlemen? Qualified 29, unqualified 27 (both Square-trained); high-class West-End and Continental experience; familiar with French and American proprietary articles; French spoken; a berth is required where honesty and energy will be appreciated; willing to revive a neglected business; highest business and personal credentials; London district. 184/28, Office of this Paper.

YOUNG lady (20); four years' experience; Dispensing, Retail, Doctor, or Chemist; disengaged October. Marshall, The Avenue, Grayshott, Surrey.

YOUNG Lady (26), very energetic, accustomed to high-class Counter and Stock, desires berth; highly recommended; no Dispensing; two years in present position. Miss Clark, c/o Charles Brooks, M.P.S., 4 Northumberland Avenue, W.C. 2.

YOUNG lady (22), unqualified, experienced in Dispensing and Counter work, seeks post with Dispensing Chemist; free now. Miss D. Green, King Street, Long Buckley, near Rugby.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A CAPABLE London man, with executive ability, sound business training, and thoroughly familiar with modern salesmanship, is open for position of responsibility with progressive house, home or abroad, where there is scope for reliable and conscientious work, with suitable remuneration on results; twenty years' unusual experience of Drug Trade business management, including marketing of Proprietary Articles, preparing advertisement matter, and purchasing raw materials; thoroughly conversant with Commercial Correspondence and control of staff. Arrange interview with "Exchange," (4/53B), Office of this Paper.

ADVERTISER (27), qualified, demobbed officer, desires position of trust with Wholesale house; 10 years' Retail and Wholesale experience. Apply "Statim" (183/120), Office of this Paper.

ESTABLISHED Manufacturer's Agent requires Toilet Brush house for North of England and Scotland; extensive connection best class buyers; only makers entertained. Apply "D.O.S." (178/31), Office of this Paper.

GENTLEMAN, 25, good appearance, educated, thorough knowledge of Retail, requires situation with large firm. Replies to 179/24, Office of this Paper.

MAJOR Student desires laboratory work in up-to-date house; has had good experience. Reply to 11/8F, Office of this Paper.

REPRESENTATIVE; London connection; keen, tactful Salesman; disengaged October 4; interview arranged, London. "Number One," 74 Peckham Road, S.E.

REPRESENTATIVE, over 20 years with present firm, desires change; good connection with medical men and Chemists North of England; energetic and well received. Apply 179/32, Office of this Paper.

RUSSIAN Gentleman, with many years' experience in Drug Trade business, desires engagement in Wholesale House in any capacity; speaks Russian, German, and also, to a lesser extent, French and English; excellent references. Apply Mr. P. Poelchau, c/o Mrs. L. Savage, Newton Blossomville, Newport Pagnell, Bucks.

SOUTH COAST.—Advertiser, with wide experience in Wholesale and Retail, desires to represent first-class house; other work considered. Chemist, "Glenleigh," Uckfield, Sussex.

TRAVELLER (qualified Chemist) seeks sound position; now calling on Chemists for firm of high standing; young and keen; Midlands or North preferred, but not essential. 183/23, Office of this Paper.

UNQUALIFIED desires position in Wholesale House; reliable, energetic; interview in district. Advertiser, 9 Toft Street, Holt Road, Liverpool.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

QUALIFIED, 26, single, seeks situation abroad or where previous Army service is not fatal. Apply 181/1, Office of this Paper.

SOUTH FRANCE, Italy, Spain.—Season engagement; qualified (47); knowledge French, German; 5 years Sergt.-Dispenser, R.A.M.C., France, Germany; disengaged October 31st. "M.P.S.," 238 Prince Regent's Lane, Plaistow, E.

LONDON MEDICAL EXHIBITION.

Stand at this Exhibition, through unforeseen circumstances, cannot now be used. Friends who would like to avail themselves of this Stand at a nominal figure are invited to communicate with

Box A.C.B., c/o Anderson's Advertising Agency, 14 King William Street, Strand, W.C. 2.

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10s. for 60 words; 1s. for every additional 10 words or less.

MCADAM & TUCKNIES, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.—Shares for Sale (free of commission, subject): 300 Allenbury "B" 6% Pfs., 16s. 6d. e.d.; 300 British Cellulose Pfs., 15s. 10½d.; 200 W. J. Bush Old Ord 24s., £195 Deb. 61½ per £100; 150 Evans Lescher Pfs. 15s. 3d. cd., 250 Ord. 34s. 3d.; 300 Idris "A" Ord. 10s. 10½d., 300 "A" 6% Pfs. 11s. 3d.; 500 Harrison & Crosfield 6% Pfs., 17s. 3d.; 15 Ucal Ord. £5 shares, fully paid, 75s.; 500 E. & T. Pink 6% Pfs., 14s. 7½d.; 100 Peek Frean Pfs., 15s. 7½d.—Shares wanted (subject): Allenbury; Wright Layman; G. B. Kent.—Bankers, London County and Westminster.

SHOP FITTINGS.—10′ 0″ Mahogany Serving Counter with Glass Cases in front; 6′ 0″ bent plate-glass Counter Showcase; 8′ 0″ Wall Showcase; several Drug Fittings and Dispensing Screens, Silent Salesman Showcases and Counters; every size. Write, stating wants, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SURPLUS STOCK.—10 gross Tooth Brushes, bone, full size, 48s. gross; 30 lb. Safrol, 5 lb. at 6s. 9d., 10 lb. at 6s. 6d. lb.; 3 cwt. Sulphur Tablets, 14 lb. at 1s. 9d., 28 lb. at 1s. 7d. lb.; 100 gallons Camphorated Oil, B.P., at 4s. 6d. lb. in 3-gallon lots; 70 lb. Camomile Flowers, Belg. Opt., 7 lb. at 1s. 9d., 14 lb. at 1s. 8d. lb.; all carriage paid. Ross Manufacturing Co., Manufacturing Chemists, 92 Kirkdale, Sydenham, S.E. 26.

14 LB. Ol. Cinnamomi, 5s. oz., 60s. lb.; 2 lb. Ol. Menth. Pip., 6s. oz., 20s. 4 oz.; 5 lb. Ol. Cajuput, 5s. lb.; 40 lb. Tinct. Kino, 5s. lb.; 12 lb. Tinct. Aurantii, 14s. lb.; 14 lb. Tinct. Lobelia Æther., 7s. lb.; all B.P.; 3 doz. Menth. Bronchial Loz., P. D. & Co., 15s. 6d.; would exchange for Optical, Photographic, Quinine, etc. Walker, 86 Moyser Road, S.W. 16.

EXCHANGE COLUMN.

Twopence per word: Minimum 2s.

FOR DISPOSAL.

OPTICAL AND PHOTOGRAPHIC.

FOR Disposal, half-plate Dallmeyer Lens; perfect condition; 60s. Clear, Chemist, Leicester.

PHOTOGRAPHIC.—Printing Frames, 34 × ¼ plate, 38 × 5″ × 4″, 29 × ½ plate. 171/24, Office of this Paper.

WANTED.

25 GROSS or so Bottles, reputed quarts, for Wine Cordials. Particulars to Smart's, Ltd., Methil.

COMPLETE Optical Trial Case wanted; mounted lenses. 176/12, Office of this Paper.

WANTED (10 to 12 gallons contents), Copper Water Bath Still; gas-fired furnace and condenser; must be in good condition. Full particulars, 184/14, Office of this Paper.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

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EASY TO TAKE, CAUSE NO NAUSEA

Permit the Oral Administration of Massive Doses of Ipecac

EACH TABLET contains the alkaloids of ten grains of Ipecac, U. S. P., combined with a form of hydrated aluminum silicate. The tablet disintegrates readily, but the compound passes through the acid juices of the stomach unchanged and liberates the Ipecac alkaloids in the alkaline secretions of the intestines; thus the nausea and vomiting are avoided.

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For Both Human and Veterinary Use

Eight sizes for human use—three sizes for veterinary use—one-fourth, one-half and one ounce capacities. Clean, firm, thin-walled, highly transparent, quickly soluble, easily joined, close securely. Carried in stock uncolored and pink.

Many of the sizes are satisfactory containers for small articles, having certain advantages over boxes and glass vials

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